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THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

SUMMARIZED PROCEEDINGS

OF THE

SIXTY-SEVENTH MEETING, [illegible]

SIXTY-EIGHTH MEETING, [illegible]

SIXTY-NINTH MEETING, [illegible]

[illegible]

[illegible]

[illegible]

SEVENTY-THIRD MEETING, [illegible]

TOGETHER WITH

THE CONSTITUTION AND BY-LAWS AND HISTORY OF PROCEEDINGS

Adopted at the [illegible] Meeting

AND A LIST OF

LIST OF FELLOWS AND GUEST MEMBERS

Revised to June [illegible]

[illegible]

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THE ORGANIZATION AND PURPOSES OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

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NOV 14 1921

THE AMERICAN ASSOCIATION
FOR THE
ADVANCEMENT OF SCIENCE

ORGANIZED, 1848 INCORPORATED, 1874

SUMMARIZED PROCEEDINGS
OF THE

SIXTY-SEVENTH MEETING, *San Francisco, California*
August 2 to 7, 1915

SIXTY-EIGHTH MEETING, *Columbus, Ohio*
December 27, 1915, to January 1, 1916

SIXTY-NINTH MEETING, *New York City*
December 26 to 30, 1916

SEVENTIETH MEETING, *Pittsburgh, Pennsylvania*
December 28, 1917, to January 2, 1918

SEVENTY-FIRST MEETING, *Baltimore, Maryland*
December 23 to 28, 1918

SEVENTY-SECOND MEETING, *St. Louis, Missouri*
December 29, 1919, to January 3, 1920

SEVENTY-THIRD MEETING, *Chicago, Illinois*
December 27, 1920, to January 1, 1921

TOGETHER WITH

THE CONSTITUTION AND BY-LAWS AND RULES OF PROCEDURE
Adopted at the St. Louis Meeting

AND ALSO THE

LIST OF FELLOWS AND OTHER MEMBERS
Corrected to June 15, 1921

Besides Other Information Regarding the Association

PUBLISHED BY THE ASSOCIATION
IN THE
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WASHINGTON, D. C.
1921

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THE ASSOCIATION
FROM THE
OFFICE OF THE PERMANENT SECRETARY
WASHINGTON, D. C.
1921

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ADVANCEMENT OF SCIENCE

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CONTENTS

PAGE

Editor's Note 5
Articles of Incorporation 8
The Old Constitution, in force until Jan. 3, 1920 10
The New Constitution, in force since Jan. 3, 1920 19
Divisions of the Association 28
The Constitution of the Pacific Division 28
The Constitution of the Southwestern Division 33
Academies of Science Affiliated with the Association 38
The Roll of the Presidents of the Association 40
Vice-Presidents, Secretaries, and Treasurers of the Association 42

PROCEEDINGS, 1915, FOR THE PERIOD FOLLOWING THE FOURTH PHILADELPHIA MEETING

General Officers for the Calendar Year 1915 51
Section Committees for the Calendar Year 1915 53
Members of the Council for the Calendar Year 1915 56
Members of the General Committee for the Calendar Year 1915 60
The Sixty-Seventh Meeting (First Pacific Coast Meeting), Aug. 2 to 7, 1915:
Local Committees for the First Pacific Coast Meeting 62
Reports of the First Pacific Coast Meeting 68

PROCEEDINGS, 1916

The Sixty-Eighth Meeting (Second Columbus Meeting), Dec. 27, 1915, to Jan. 1, 1916:
Local Committees for the Second Columbus Meeting 71
Reports of the Second Columbus Meeting 73
The Special Washington Meeting, in Connection with the Second Pan-American Scientific Congress, Jan. 3 to 4, 1916 75
Executive Sessions for the Fiscal Year 1915–16 75

PROCEEDINGS 1917

General Officers for the Calendar Year 1916 79
Section Committees for the Calendar Year 1916 81
Members of the Council for the Calendar Year 1916 84
Members of the General Committee for the Calendar Year 1916 89
The Sixty-Ninth Meeting (Fourth New York Meeting), Dec. 26 to 29, 1916:
Local Committees for the Fourth New York Meeting 90
Reports of the Fourth New York Meeting 90
Executive Sessions for the Fiscal Year, 1916–17 93

Digitized by Google

PROCEEDINGS, 1918

PAGE
General Officers for the Calender Year 1917 97
Section Committees for the Calender Year 1917 99
Members of the Council for the Calender Year 1917 102
Members of the General Committee for the Calender Year 1917 107
The Seventieth Meeting (Second Pittsburgh Meeting), Dec. 28, 1917, to Jan. 2, 1918:
Local Committees for the Second Pittsburgh Meeting 108
Reports of the Second Pittsburgh Meeting 111
Executive Sessions for the Fiscal Year 1917–18 113

PROCEEDINGS, 1919

General Officers for the Calendar Year 1918 117
Section Committees for the Calendar Year 1918 119
Members of the Council for the Calendar Year 1918 122
Members of the General Committee for the Calendar Year 1918 127
The Seventy-First Meeting (Third Baltimore Meeting), Dec. 23 to 28, 1918:
Local Committees for the Third Baltimore Meeting 128
Reports of the Third Baltimore Meeting 128
Executive Sessions for the Fiscal Year 1918–19 130

PROCEEDINGS, 1920

General Officers for the Calendar Year 1919 133
Section Committees for the Calendar Year 1919 135
Members of the Council for the Calendar Year 1919 138
Members of the General Committee for the Calendar Year 1919 143
The Seventy-Second Meeting (Third St. Louis Meeting), Dec. 29, 1919, to Jan. 3, 1920:
Local Committees for the Third St. Louis Meeting 144
Reports of the Third St. Louis Meeting 144
Executive Sessions for the Fiscal Year 1919–20 146

PROCEEDINGS, 1921 (TO JUNE, 1921)

General Officers for the Calendar Year 1920 151
Section Committees for the Calendar Year 1920 153
Members of the Council for the Calendar Year 1920 157
Members of the Executive Committee for the Calendar Year 1920 161
The Seventy-Third Meeting (Third Chicago Meeting), Dec. 27, 1920, to Jan. 1, 1921:
Local Committee for the Third Chicago Meeting 162
Reports of the Third Chicago Meeting 162
Executive Sessions for the Fiscal Year 1920–21 (to June, 1921) 164
List of members of the Association, corrected to June 15, 1921.
Sustaining Members 169
Alphabetical List of Individual Members 169
Institution Members 711

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EDITOR'S NOTE

The Proceedings of the American Association for the Advancement of Science were published as annual volumes from the founding of the Association until 1910. Since 1910 the announcements and the reports of the meetings, together with the presidential and vice-presidential addresses and other official publications, have appeared in the weekly journal SCIENCE, official organ of the Association, which is sent free to all members. The adoption of this plan rendered unnecessary the publication of the full proceedings, and they were replaced by volumes of summarized proceedings, with references to SCIENCE, published at intervals of several years. A volume of the SUMMARIZED PROCEEDINGS, including the Constitution, the Lists of Officers, references to SCIENCE for the Presidential and Vice-Presidential Addresses, and the List of Members, was published in 1912, and another in 1915. The present volume constitutes the third of the series of SUMMARIZED PROCEEDINGS, and it includes summaries for the years 1914–20, corresponding to what would be volumes LXVII–LXXIII of the full PROCEEDINGS if these had been continued in the earlier form.

The annual meetings of the Association are held at the Christmas holiday season of each year. In some years a summer meeting is held. The fiscal year of the Association now begins October 1, so that the annual meeting for that year occurs about three months later. (Previous to 1920, the fiscal year began November 1.) The permanent secretary's office employs the fiscal year, but the treasurer's office employs a year that nearly coincides with the calendar year. The free subscriptions to the journal, to which every member is entitled, are for the calendar year beginning three months after the beginning of the fiscal year for which annual dues are paid. The terms of office of the officers of the Association are for periods corresponding closely to those based on calendar years; regular elections occur at the annual meetings, and each term of office expires at the end of the annual meeting during which the

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successor of the officer is elected. Thus, nearly twelve months elapse between the election of an officer and the occurrence of the first annual meeting at which he functions. It is thus seen that some confusion may arise when different years of the Association are referred to. To avoid this as far as possible, the customary calendar years are indicated throughout the present volume, wherever periods are mentioned. Thus, the fiscal year beginning November 1, 1918, which was really the *fiscal year 1919*, is referred to as the fiscal year 1918–19. In a similar manner, the third Chicago meeting is referred to as the annual meeting of 1920–21, although it properly belonged to the *fiscal year 1921*, which began October 1, 1920. References to the official terms of officers are conveniently made by the use of a single number corresponding to the calendar year or years that practically coincide with the official terms.

It should be specially noted that a new constitution was adopted by the Association at the third St. Louis meeting (annual meeting for 1919–20), and that this action involved the reorganization of the Association to a marked extent. The old sections stood until after the St. Louis meeting, and the new arrangement of sections first came into operation at the third Chicago meeting (annual meeting for 1920–21).

The summarized proceedings for the years here dealt with are presented in chronological order, with references to SCIENCE for all detailed reports, etc. Reference to the Table of Contents will guide the reader to the pages he wishes to consult. It has not been found practicable to provide an index to the present volume.

The Membership List, with which the volume closes, is corrected to June 15, 1921, in so far as information was supplied up to that date. On October 1, 1920, in preparation for this list, every member was asked to fill in the blanks on a special information card and to rerturn this card to the permanent secretary. Those who failed to respond to this request were asked again, and several subsequent requests of like nature were sent out from time to time. The majority of the members responded finally. But when the printer's proofs were in hand there were still a large number who had either not responded at all or else had given incomplete infor-

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mation. The list was at that time completed from the addressograph file, by inserting the names and addresses of those who had not supplied the requisite information. Incompleteness or incorrectness of the information given in the list is generally due to failure of the member to respond to the several repeated requests just mentioned. Readers of this volume are asked to notify the Permanent Secretary's Office regarding all errors detected in the membership list, to the end that necessary corrections may be made in the card file, to be in readiness for the preparation of the next published list.

BURTON E. LIVINGSTON,
Permanent Secretary.

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ARTICLES OF INCORPORATION OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

COMMONWEALTH OF MASSACHUSETTS

In the Year One Thousand Eight Hundred and Seventy-Four

AN ACT

TO INCORPORATE THE "AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE"

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

SECTION 1. Joseph Henry of Washington, Benjamin Pierce of Cambridge, James D. Dana of New Haven, James Hall of Albany, Alexis Caswell of Providence, Stephen Alexander of Princeton, Isaac Lea of Philadelphia, F. A. P. Barnard of New York, John S. Newberry of Cleveland, B. A. Gould of Cambridge, T. Sterry Hunt of Boston, Asa Gray of Cambridge, J. Lawrence Smith of Louisville, Joseph Lovering of Cambridge, and John LeConte of Philadelphia, their associates, the officers and members of the Association known as the "American Association for the Advancement of Science," and their successors are hereby made a corporation by the name of the "American Association for the Advancement of Science," for the purpose of receiving, purchasing, holding, and conveying real and personal property, which it now is, or hereafter may be possessed of, with all the powers and privileges, and subject to the restrictions, duties and liabilities set forth in the general laws which now or hereafter may be in force and applicable to such corporations.

SECTION 2. Said corporation may have and hold by purchase, grant, gift, or otherwise, real estate not exceeding two hundred and fifty thousand dollars in value, and personal estate in any amount.*

SECTION 3. Any two of the corporators above named are hereby authorized to call the first meeting of the said corporation in the month of August

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*(*In accordance with amendment by Special Act of Massachusetts Legislature, Chapter 238, approved March 30, 1915.*)

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next ensuing, by notice thereof "by mail," to each member of the said Association.

SECTION 4. This act shall take effect upon its passage.

HOUSE OF REPRESENTATIVES, March 10, 1874.
Passed to be enacted,
JOHN E. SANFORD, *Speaker.*

IN SENATE, March 17, 1874.
Passed to be enacted,
GEO. B. LORING, *President.*

March 19, 1874.
Approved,
W. B. WASHBURN.

SECRETARY'S DEPARTMENT,
Boston, April 3, 1874.
A true copy, Attest:
DAVID PULSIFER,
Deputy Secretary of the Commonwealth.

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THE OLD CONSTITUTION OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

In force until January 3, 1920

Incorporated by Act of the General Court of the Commonwealth of Massachusetts

Objects

Article 1. The objects of the Association are, by periodical and migratory meetings, to promote intercourse between those who are cultivating science in different parts of America, to give a stronger and more general impulse and more systematic direction to scientific research, and to procure for the labors of scientific men increased facilities and a wider usefulness.

Membership

Art. 2. The Association shall consist of members, fellows, patrons, corresponding members and honorary fellows.

Members

Art. 3. Any person may become a member of the Association upon recommendation in writing by two members or fellows, and election by the Council. Any incorporated scientific society or institution, or any public or incorporated library, may be enrolled as a member of the Association by vote of the Council by payment of the initiation fee; such society, institution, or library may be represented by either the President, Curator, Director, or Librarian presenting proper credentials at any meeting of the Association for which the assessment has been paid.

Associates

Associates for any single meeting shall be admitted on the payment of three dollars, such associates to have all the privileges of the meeting, except reading papers and voting.

Members of scientific societies whose meetings are contemporaneous with, or immediately subsequent to, that of the Association, and which are recognized by vote of the Council as "Affiliated Societies," may become associate members for that meeting on the payment of three dollars. They shall be entitled to all the privileges of membership except voting or appointment to office, but their names shall not appear in the list of members printed in the report.

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Foreign Associates

Any member or fellow of any national scientific or educational institution, or of any society, or academy of science of any country not in America, who may be present at any meeting of the Association shall, on presenting the proper credentials, be enrolled without fee as a Foreign Associate, and shall be entitled to all the privileges of the meeting except voting on matters of business.

Fellows

Art. 4. Fellows shall be elected by the Council from such of the members as are professionally engaged in science, or have, by their labors, aided in advancing science. The election of fellows shall be by ballot and a majority vote of the members of the Council at a designated meeting of the Council.

Patrons

Art. 5. Any person paying to the Association the sum of one thousand dollars shall be classed as a patron, and shall be entitled to all the privileges of a member and to all its publications.

Honorary Fellows and Corresponding Members

Art. 6. Honorary Fellows of the Association, not exceeding three for each Section, may be elected, the nominations to be made by the Council and approved by ballot in the respective sections before election by ballot in General Session. Honorary fellows shall be entitled to all the privileges of fellows, and shall be exempt from all fees and assessments, and entitled to all publications of the Association issued after the date of their election. Corresponding members shall consist of such scientists not residing in America as may be elected by the Council, and their number shall be limited to fifty.

Suspensions

Art. 7. The name of any member or fellow two years in arrears for annual dues shall be erased from the list of the Association, provided, that two notices of indebtedness, at an interval of at least three months, shall have been given, and no such person shall be restored until he has paid his arrearages or has been re-elected. The Council shall have power to exclude from the Association any member or fellow, on satisfactory evidence that said member or fellow is an improper person to be connected with the Association, or has in the estimation of the Council made improper use of his membership or fellowship.

Officers

Art. 8. No member or fellow shall take part in the organization of, or hold office in, more than one section at any one meeting.

Art. 9. The officers of the Association shall be elected by ballot by the General Committee from the fellows, and shall consist of a President, a Vice-

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President from each section, a Permanent Secretary, a General Secretary, a Secretary of the Council, a Treasurer, and a Secretary of each Section; these, with the exception of the Permanent Secretary, the Treasurer, and the Secretaries of the Sections, shall be elected at each meeting for the following one, and, with the exception of the Treasurer and the Permanent Secretary, shall not be re-eligible for the next two meetings. The term of office of the Permanent Secretary, of the Treasurer, and of the Secretaries of the Sections, shall be five years.

President

Art. 10. The President, or in his absence, the senior Vice-President present, shall preside at all general Sessions of the Association and at all meetings of the Council. It shall also be the duty of the President to give an address at a General Session of the Association at the meeting following that over which he presided.

Vice-Presidents

Art. 11. The Vice-Presidents shall be chairmen of their respective Sections, and of their Sectional Committees, and it shall be part of their duty to give an address, each before his own section, at such time as the Council shall determine, at the meeting subsequent to that at which he presides. The Vice-Presidents may appoint temporary chairmen to preside over the sessions of their Sections, but shall not delegate their other duties. The Vice-Presidents shall have seniority in order of their continuous membership in the Association.

General Secretary

Art. 12. The General Secretary shall be the Secretary of all General Sessions of the Association, and shall keep a record of the business of these sessions. He shall receive the records from the Secretaries of the Sections, which, after examination, he shall transmit with his own records to the Permanent Secretary within two weeks after the adjournment of the meeting.

Secretary of the Council

Art. 13. The Secretary of the Council shall keep the records of the Council. He shall give to the Secretary of each Section the titles of papers assigned to it by the Council. He shall receive proposals for membership and bring them before the Council.

Permanent Secretary

Art. 14. The Permanent Secretary shall be the executive officer of the Association under the direction of the Council. He shall attend to all business not specially referred to committees nor otherwise constitutionally provided for. He shall keep an account of all business that he has transacted for the Association, and make annually a general report for publication. He shall attend

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to the printing ordered by the Association. He shall issue a circular of information to members and fellows at least three months before each meeting, and shall, in connection with the Local Committee, make all necessary arrangements for the meetings of the Association. He shall provide the Secretaries of the Association with such books and stationery as may be required for their records and business, and shall provide members and fellows with such blank forms as may be required for facilitating the business of the Association. He shall collect all assessments and admission fees, and notify members and fellows of their election, and of any arrearages. He shall receive, and bring before the Council, the titles and abstracts of papers proposed to be read before the Association. He shall keep an account of all receipts and expenditures of the Association, and report the same annually at the first meeting of the Council, and shall pay over to the Treasurer such unexpended funds as the Council may direct. He shall receive and hold in trust for the Association all books, pamphlets, and manuscripts belonging to the Association, and allow the use of the same under the provisions of the Constitution and the orders of the Council. He shall receive all communications addressed to the Association during the intervals between meetings, and properly attend to the same. He shall at each meeting report the names of fellows and members who have died since the preceding meeting. He shall be allowed a salary which shall be determined by the Council, and may employ one or more clerks at such compensation as may be agreed upon by the Council.

Treasurer

Art. 15. The Treasurer shall invest the funds received by him in such securities as may be directed by the Council. He shall annually present to the Council an account of the funds in his charge. No expenditure of the principal in the hands of the Treasurer shall be made without a unanimous vote of the Council, and no expenditure of the income received by the Treasurer shall be made without a two-thirds vote of the Council. The Treasurer shall give bonds for the faithful performance of his duty in such manner and sum as the Council shall from time to time direct.

Secretaries of the Sections

Art. 16. The Secretaries of the Sections shall keep the records of their respective Sections, and, at the close of the meeting, give the same, including the records of subsections, to the General Secretary. They shall also be the Secretaries of the sectional committees. The secretaries shall have seniority in order of their continuous membership in the Association.

Vacancies

Art. 17. In case of a vacancy in the office of President, the senior Vice-President shall preside, as provided in Article 10, until the General Committee can be assembled and the vacancy filled by election. Vacancies in the offices

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of Vice-President, Permanent Secretary, Secretary of the Council, Secretaries of the Sections, and Treasurer, shall be filled by the Council by ballot.

Council

Art. 18. The Council shall consist of the Past Presidents, and the Vice-Presidents of the last two meetings, together with the President, the Vice-Presidents, the Permanent Secretary, the General Secretary, the Secretary of the Council, the Secretaries of the Sections, and the Treasurer of the current meeting, of one fellow elected from each Section by ballot on the first day of its meeting, of one fellow elected by each affiliated society, and one additional fellow from each affiliated society having more than twenty-five members who are fellows of the Association, and of nine fellows elected by the Council, three being annually elected for a term of three years. The members present at any regularly called meeting of the Council, provided there are at least five, shall form a quorum for the transaction of business. The Council shall meet on the day preceding each annual meeting of the Association, and arrange the program for the first day of the sessions. The time and place of this first meeting shall be designated by the Permanent Secretary. Unless otherwise agreed upon, regular meetings of the Council shall be held in the Council room at 9 o'clock A. M., on each day of the meeting of the Association. Special meetings of the Council may be called at any time by the President. The Council shall be the board of supervision of the Association, and no business shall be transacted by the Association that has not first been referred to, or originated with, the Council. The Council shall decide which papers, discussions, and other proceedings shall be published, and have the general direction of the publications of the Association; manage the financial affairs of the Association; arrange the business and programs for General Sessions; suggest subjects for discussion, investigation of reports; elect members and fellows; and receive and act upon all invitations extended to the Association and report the same at a General Session of the Association. The Council shall receive all reports of Special Committees and decide upon them, and only such shall be read in General Session as the Council shall direct. The Council shall appoint at each meeting the following subcommittees who shall act, subject to appeal to the whole Council, until their successors are appointed at the following meeting: 1, on Papers and Reports; 2, on Members; 3, on Fellows.

General Committee

Art. 19. The General Committee shall consist of the Council and one member or fellow elected by each of the Sections, who shall serve until their successors are elected. It shall be the duty of the committee to meet at the call of the President and elect the general officers for the following meeting of the Association. It shall also be the duty of this committee to fix the time and place for the next meeting. The Vice-President and Secretary of each Section shall be recommended to the General Committee by the Sectional Committee.

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Meetings

Art. 20. The Association shall hold a public meeting annually for one week or longer, at such time and place as may be determined by vote of the General Committee, and the preliminary arrangements for each meeting shall be made by the Local Committee, in conjunction with the Permanent Secretary and such other persons as the Council may designate.

But, if suitable preliminary arrangements cannot be made, the Council may afterwards change the time and place appointed by the General Committee, if such change is believed advisable by two-thirds of the members present.

Art. 21. A General Session shall be held at 10 o'clock A. M., on the first day of the meeting, and at such other times as the Council may direct.

Sections and Subsections

Art. 22. The Association shall be divided into Sections—namely, A, *Mathematics and Astronomy;* B, *Physics;* C, *Chemistry, including its application to Agriculture and the Arts;* D, *Engineering;* E, *Geology and Geography;* F, *Zoology;* G, *Botany;* H, *Anthropology and Psychology;* I, *Social and Economic Science;* K, *Physiology and Experimental Medicine;* L, *Education;* M, *Agriculture.* The Council shall have power to create additional Sections from time to time and to discontinue, combine or re-arrange existing Sections. The Council shall have power to consolidate any two or more Sections temporarily, and such consolidated sections shall be presided over by the senior Vice-President and Secretary of the Sections comprising it.

Sectional Committees

Art. 23. Immediately on the organization of a Section there shall be a member or fellow elected by ballot after open nomination, who, with the Vice-President and Secretary and the preceding Vice-President and Secretary and the Presidents and Secretaries of those affiliated societies which shall be designated by the Council and the members or fellows elected by ballot at the four preceding meetings, shall form its Sectional Committee. The Sectional Committees shall have power to fill vacancies in their own numbers. Meetings of the Sections shall not be held at the same time with a General Session. The Sectional Committee may invite distinguished foreign associates present at any meeting to serve as honorary members of said Committee.

Art. 24. The Sectional Committee of any Section may at its pleasure form one or more temporary Subsections, and may designate the officers thereof. The Secretary of a Subsection shall, at the close of the meeting, transmit his records to the Secretary of the Section.

Art. 25. No paper shall be read at any Section or Subsection until it has been placed on the program of the day by the Sectional Committee.

Art. 26. The Sectional Committee shall arrange and direct the business of their respective Sections. They shall prepare the daily programs and give

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them to the Permanent Secretary for printing at the earliest moment practicable. No titles of papers shall be entered on the daily programs except such as have passed the Committee. No change shall be made in the program for the day in a Section without the consent of the Sectional Committee. The Sectional Committee may refuse to place the title of any paper on the program; but every such title, with the abstract of the paper or the paper itself, must be referred to the Council with the reasons why it was refused. The Sectional Committees shall also make nominations to the General Committee for Vice-President and Secretary of their respective Sections as provided for in Article 19.

ART. 27. The Sectional Committee shall examine all papers and abstracts referred to the Sections, and they shall not place on the program any paper inconsistent with the character of the Association; and to this end they have power to call for any paper, the character of which may not be sufficiently understood from the abstract submitted.

PAPERS AND COMMUNICATIONS

ART. 28. All members and fellows must forward to the Secretary of the proper Section or to the Permanent Secretary, as early as possible, and, when practicable, before the convening of the Association, full titles of all the papers which they propose to present during the meeting, with a statement of the time that each will occupy in delivery, and also such abstracts of their contents as will give a general idea of their nature, and no title shall be considered by a Sectional Committee until an abstract of the paper or the paper itself has been received.

ART. 29. If the author of any paper be not ready when called upon, in the regular order of the official program, the title may be dropped to the bottom of the list.

ART. 30. Whenever practicable, the proceedings and discussions at General Sessions, Sections and Subsections, shall be reported by professional reporters, but such reports shall not appear in print as the official reports of the Association unless revised by the Secretaries.

PRINTED PROCEEDINGS

ART. 31. The Permanent Secretary shall publish from time to time a list of officers and members of the Association together with such other matter as the Council may direct. Immediately on publication of the volume, a copy shall be forwarded to every member and fellow of the Association who shall have paid the assessment for the meeting to which it relates, and it shall also be offered for sale by the Permanent Secretary at such price as may be determined by the Council. The Council shall also designate the institutions to which copies shall be distributed.

LOCAL COMMITTEE

ART. 32. The Local Committee shall consist of persons interested in the objects of the Association and residing at or near the place of the proposed

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meeting. It is expected that the Local Committee, assisted by the officers of the Association, will make all essential arrangements for the meeting, and issue a circular, giving necessary particulars, at least one month before the meeting.

Library of the Association

Art. 33. All books and pamphlets received by the Association shall be in charge of the Permanent Secretary, who shall have a list of the same printed and shall furnish a copy to any member or fellow on application. Members and fellows who have paid their assessments in full shall be allowed to call for books and pamphlets, which shall be delivered to them at their expense on their giving a receipt agreeing to make good any loss or damage, and to return the same free of expense to the Permanent Secretary at the time specified in the receipt given. All books and pamphlets in circulation must be returned at each meeting. Not more than five books, including volumes, parts of volumes, and pamphlets, shall be held at one time by any member or fellow. Any book may be withheld from circulation by order of the Council. [The Library of the Association was, by vote of the Council in 1895, placed on deposit in the Library of the University of Cincinnati, Ohio. Members can obtain the use of books by writing to the Librarian of the University Library, Cincinnati, Ohio.]

Admission Fees and Assessments

Art. 34. The admission fee for members shall be five dollars in addition to the annual dues.

Art. 35. The annual dues for members and fellows shall be three dollars.

Art. 36. Any member or fellow who shall pay the sum of fifty dollars to the Association, at any one time, shall become a Life Member, and as such shall be exempt from all further assessments, and shall be entitled to the Proceedings of the Association. All money thus received shall be invested as a permanent fund, the income of which, during the life of the member, shall form a part of the general fund of the Association; but, after his death, shall be used only to assist in original research, unless otherwise directed by unanimous vote of the Council. (New members becoming life members must pay the admission fee of five dollars.)

Art. 37. All fees and dues must be paid to the Permanent Secretary, who shall give proper receipts for the same.

Accounts

Art. 38. The accounts of the Permanent Secretary and of the Treasurer shall be audited annually by Auditor appointed by the Council.

Alterations of the Constitution

Art. 39. No part of the Constitution shall be amended or annulled, without the concurrence of three-fourths of the members and fellows present in General Session, after notice given at a General Session of a preceding meeting of the Association.

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THE NEW CONSTITUTION OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

As adopted at the St. Louis (1920) Meeting, and amended at the Chicago (1921) Meeting; in force since January 3, 1920

Article 1—Objects

The objects of the Association are to promote intercourse among those who are cultivating science in different parts of America, to coöperate with other scientific societies and institutions, to give a stronger and more general impulse and more systematic direction to scientific research, and to procure for the labors of scientific men increased facilities and a wider usefulness.

Article 2—Membership

Persons willing to coöperate in the work of the Association may be elected to be Members by the Council. Members who are professionally engaged in scientific work or who have advanced science by research may be elected to be Fellows. The admission fee for Members is five dollars; the annual dues are five dollars. A member who pays at one time the sum of one hundred dollars to the Association becomes a life member and is exempt from further dues. A person who gives one thousand dollars to the Association may be elected to be a sustaining member and is exempt from further dues.

Article 3—Officers

The officers of the Association shall be elected by ballot by the Council, and shall consist of a President, a Vice-President from each section, a Permanent Secretary, a General Secretary, a Treasurer and a Secretary of each Section. The President and the Vice-Presidents shall be elected for one year, the other officers for four years. The officers shall perform the usual duties of these officers, under the direction of the Council.

Article 4—Council

The Council shall consist of the President, the Vice-Presidents, the Permanent Secretary, the General Secretary, the Secretaries of the Sections, and the Treasurer, of one fellow elected by each affiliated society and one additional fellow from each affiliated society having more than one hundred members who are fellows of the Association, and of eight fellows, two elected annually by the Council for a term of four years. There shall be an Executive Committee of the Council, consisting of the President, the Permanent Secretary,

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the General Secretary, and eight members elected by the Council, two annually for a term of four years. The Council may appoint standing or temporary committees to make reports, to assist in the conduct of the work of the Association and to promote its objects.

Article 5—Sections

The Association shall be divided into the following Sections: A, *Mathematics;* B, *Physics;* C, *Chemistry;* D, *Astromony;* E, *Geology and Geography;* F, *Zoological Sciences;* G, *Botanical Sciences;* H, *Anthropology;* I, *Psychology;* K, *Social and Economic Sciences;* L, *Historical and Philological Sciences;* M, *Engineering;* N, *Medical Sciences;* O, *Agriculture;* P, *Manufactures and Commerce;* Q, *Education.* Members of the Association shall be members of that Section or of those Sections under which their work or their interests fall. Members of Section shall nominate to the Council a Chairman, who becomes *ex officio* a Vice-President of the Association and whose term of office shall be one year, and a Secretary, whose term of office shall be four years. These officers, together with four fellows, one elected annually by the Section for a term of four years, and the representatives on the Council of affiliated societies in the same field shall form a Sectional Committee. This Committee shall arrange the scientific programs of the meetings and may form sub-sections or hold joint meetings with other sections or other societies. It may appoint committees and shall in all ways promote the objects of the Association within its own field.

Article 6—Divisions and Branches

Regional Divisions and Local Branches of the Association may be formed by vote of the Council. Such Divisions and Branches may elect officers, hold meetings, appoint committees, enter into relations with other societies and promote within their fields the objects of the Association.

Article 7—Associated and Affiliated Societies

National and local scientific societies may, by vote of the Council, become associated with the Association. Those Associated Societies which the Council shall designate as Affiliated Societies shall be represented on the Council and on the Sectional Committees as provided in Articles 4 and 5.

Article 8—Meetings

The Association shall hold an annual meeting at such time and place as may be determined by the Council. Other meetings of the Association and of the Sections may be authorized by the Council. The Divisions and the Branches may hold annual and other meetings.

Article 9—Proceedings

The proceedings of the Association and the list of officers and members shall be published in such manner as the Council may direct.

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Article 10—Funds

The Permanent Secretary shall collect the annual dues and make expenditures as directed by the Council. The Treasurer shall deposit or invest the permanent funds of the Association, as provided for trust funds by the laws of the state of Massachusetts or the state of New York. Bequests and gifts will be administered in accordance with the provisions of the donors. The payments from sustaining and life members form part of the permanent fund, and the income (after the death of the member) shall be used for research, unless otherwise directed by unanimous vote of the Council or by a majority vote at two consecutive annual meetings.

Article 11—Alteration of the Constitution

This Constitution may be amended at a general session by unanimous vote, or by a majority vote at two consecutive annual meetings.

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BY-LAWS AND RULES OF PROCEDURE OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

I

The Association is American, its field covering North, Central and South America. Inhabitants of any country are eligible to membership.

II

1. An incorporated scientific society or institution or a public or incorporated library may become a member by vote of the Council.

2. Associates, on payment of five dollars, may be admitted to the privileges of a meeting, except voting.

3. Foreign associates may be admitted without fee to the privileges of a meeting, except voting.

4. All members who are professionally engaged in scientific work, or who have advanced science by research, may be elected by the Council to be fellows on nomination or on their own application. This qualification is understood to have been met by members of affiliated societies having a research qualification.

5. The Council may exclude from the Association any one who has made improper use of his membership or whose membership is regarded as detrimental to the Association.

III

1. The Permanent Secretary, the General Secretary and the Treasurer of the Association and the Secretaries of the Sections shall be elected at the larger convocation week meetings held once in four years beginning the last week of the year 1916. Vacancies in these offices shall be filled by the Council.

2. The President of the Association shall give an address at a general session of the Association at the annual meeting following that over which he presided.

3. The Vice-Presidents shall hold seniority in the order of their continuous membership in the Association.

4. The Permanent Secretary shall attend to the business of the Association, the arrangements for the meetings and such other matters as the Council may designate. He may employ, with the approval of the Council, an Assistant Secretary. The salary of the Permanent Secretary shall be determined by the Council.

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5. The General Secretary shall attend to matters connected with the organization of the Association, its relations to the affiliated societies and such other matters as the Council may designate. He shall receive such compensation as may be determined by the Council.

6. The Permanent Secretary, the General Secretary and the Treasurer shall present annually to the Council an account of the funds in their charge. These accounts shall be audited by an Auditor elected by the Council. There shall be a Finance Committee of three, elected by the Council, including the Treasurer, who shall give advice in regard to the investment of the funds of the Association. The Treasurer and the Permanent Secretary and General Secretary shall present a budget to the Council for the year following the annual meeting.

IV

1. There shall be a Committee on Grants, appointed by the President, with the advice of the Council, consisting of eight members, two appointed annually for a period of four years, which shall award for scientific research such part of the income from the permanent and special funds of the Association as may be appropriated for that purpose by the Council.

2. The following standing committees are authorized: Committee of One Hundred on Scientific Research; Committee of One Hundred on National Health; Committee on Delegates from Educational and Scientific Institutions; Committee on Expert Testimony; Committee on the Jane M. Smith Life Membership Fund.

3. A local committee shall be organized by the members resident in the place where a meeting of the Association is held. This committee may appoint an executive committee and other committees and shall make arrangements for the meeting, in coöperation with the Permanent Secretary and the other officers of the Association.

V

1. The Sectional Committees shall arrange for each annual meeting a program of general scientific interest, occupying usually one or two sessions. The section shall not hold sessions for the reading of special papers when the affiliated society in the same field meets with the Association.

2. No member shall take part in the organization or hold office in more than one section at any one meeting.

VI

1. The Pacific Division and the Southwestern Division and other Divisions that may be authorized by the Council have full control of their meetings, their affiliations with other scientific organizations, and of all movements to promote the advancement and diffuson of science in their territory. The Pacific Division and the Southwestern Division shall be allowed for their

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expenses the entrance fees collected through their efforts and one dollar a year for each member in good standing.

2. The Pacific Division includes all members resident in Alaska, British Columbia, Washington, Oregon, California, Idaho, Nevada, Utah, Mexico (excepting the states of Sonora and Chihuahua), the Hawaiian Islands, the Philippine Islands, and other islands of the Pacific ocean.

3. The Southwestern Division includes all members resident in Arizona, New Mexico, Texas west of the Pecos river, and the Mexican states of Sonora and Chihuahua.

4. Local Branches may be formed by members residing in the same locality. These branches shall be allowed for their expenses the entrance fees collected through their efforts and an amount for their expenses not to exceed one dollar for each member in good standing.

VII

1. Affiliated societies having two representatives on the Council and on the Sectional Committees are:*—

American Mathematical Society. (A).
The Mathematical Association of America. (A).
The American Physical Society. (B).
The American Chemical Society. (C).
The American Astronomical Society. (D).
The American Geographical Society. (E).
The Geological Society of America. (E).
The Association of American Geographers. (E).
The Seismological Society of America. (E).
The Entomological Society of America. (F).
The American Society of Zoologists. (F).
The American Association of Economic Entomologists. (F).
The American Society of Naturalists. (F, G).
The Ecological Society of America. (F, G).
The American Genetic Association. (F, G).
The American Microscopical Society. (F, G).
The Botanical Society of America. (G).
The American Phytopathological Society. (G).
The American Anthropological Association. (H).
The American Institute of Electrical Engineers. (M).
The American Institute of Mining and Metallurgical Engineers. (M).
The American Society of Civil Engineers. (M).
The American Society of Mechanical Engineers. (M).
The Illuminating Engineering Society. (M).

* Letters following society names denote sections of the Association to which the work of the societies is most closely related.

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The American Medical Association. (N).
The National Society for the Study of Education. (Q).
The American Federation of Teachers of the Mathematical and Natural Sciences. (Q).
The National Society of College Teachers of Education. (Q).
The Society of Sigma Xi. (All sections).
The Gamma Alpha Graduate Scientific Fraternity. (All sections).

2. Affiliated societies having one representative on the Council and on the Sectional Committees are*:—

NATIONAL SOCIETIES

The American Meteorological Society. (B).
The Optical Society of America. (B).
The Eugenics Research Association. (F).
The American Psychological Association. (I, Q).
The American Society for Testing Materials. (M).
The American Association of Anatomists. (N).
The Society of American Bacteriologists. (N).
The American Society of Agronomy. (O).
The American Society of Horticultural Science. (O).
The Society of American Foresters. (O).
The Southern Education Society. (Q).

LOCAL ACADEMIES

Illinois State Academy of Science.
Iowa Academy of Science.
Kansas Academy of Science.
Kentucky Academy of Science.
Maryland Academy of Sciences.
Michigan Academy of Sciences.
Nebraska Academy of Sciences.
New Orleans Academy of Sciences.
North Carolina Academy of Sciences.
Ohio Academy of Science.
Oklahoma Academy of Science.
Wisconsin Academy of Sciences, Arts and Letters.

3. Associated societies are†:—

The American Electrochemical Society. (C).
The American Institute of Chemical Engineers. (C).

* Letters following society names denote sections of the Association to which the work of the societies is most closely related.

† Letters following society names denote sections of the Association to which the work of the societies is most closely related.

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The Paleontological Society of America. (E).
Mineralogical Society of America. (E).
The American Alpine Club. (E).
The National Council of Geography Teachers. (E).
The Wilson Ornithological Club. (F).
The American Nature-Study Society. (F, G).
The Botanists of the Central States. (G).
The American Fern Society. (G).
The Sullivant Moss Society. (G).
The American Folk Lore Society. (H).
The Archeological Institute of America. (H).
The Southern Society for Philosophy and Psychology. (I).
The American Association for Labor Legislation. (K).
The American Civic Association. (K).
The American Economic Association. (K).
The American Metric Association. (K).
The American Sociological Society. (K).
The American Statistical Association. (K).
The Society for the Promotion of Engineering Education. (M).
The American Society of Heating and Ventilating Engineers. (M).
The American Society of Refrigerating Engineers. (M).
The American Physiological Society. (N).
The American Society of Biological Chemists. (N).
The American Society of Pharmacology and Experimental Therapeutics. (N).
The American Public Health Association. (N).
The Society of American Microanalysts. (N).
The American Society for Experimental Pathology. (N).
The Society for Promotion of Agricultural Science. (O).
The American Dairy Science Association. (O).
The American Pomological Society. (O).
The American Society of Animal Production. (O).
The Association of Official Seed Analysts. (O).
The School Garden Association of America. (O).
The American Association of University Professors. (Q).
The American Philosophical Association. (Q).
The Bibliographical Society of America. (All sections.)
The Phi Kappa Phi Fraternity (All sections).
The Gamma Sigma Delta Fraternity (All sections).

VIII

1. A general session of the Association shall usually be held on the first evening of the meeting, and at this session the address of the retiring president shall be given. Other general sessions may be arranged by the Council.

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2. The Council shall ordinarily meet on the afternoon of the first day of the meeting. It may also meet at such other times as may be decided, and shall ordinarily hold a meeting in the spring at Washington.

3. The Sectional Committees shall ordinarily hold meetings on the morning of the first day of each annual meeting and may hold such other meetings as they may arrange.

4. The Executive Committee shall meet on the day preceding the annual meeting and at such other times during the meeting as it may decide. It shall ordinarily hold meetings in the spring and in the autumn.

IX

1. By arrangement with the publishers of SCIENCE this journal publishes the official notices and proceedings of the Association and is sent to all members in good standing, the sum of $3 being paid to the publishers of the journal for each member. Members may by request receive *The Scientific Monthly* in place of SCIENCE. This arrangement may be cancelled by the Council of the Association or by the publishers of the journal, after one year's notice has been given by either party.

X

1. The official year of the Association shall begin on October 1, and the dues of the members are payable on that date. Only members who have paid their dues shall enjoy the privileges of the meetings and receive publications of the Association, but those not longer than two years in arrears for dues are retained on the membership list. Members dropped from membership for non-payment of dues may have their names reinstated by payment of arrearages or may be reelected with payment of the entrance fee. In the case of members of affiliated societies elected to membership in the American Association for the Advancement of Science within one year of their election to membership in the affiliated society, the entrance fee shall be remitted.

2. The Secretaries of the Association and of the Sections shall be allowed in lieu of their traveling expenses to the annual meeting, a refund amounting to 4 cents a mile for the round trip.

3. Members of the Executive Committee shall be allowed, in lieu of their traveling expenses in attendance on meetings of the Committee held apart from the meetings of the Association, a refund amounting to 4 cents a mile for the round trip.

XI

These By-Laws and Rules of Procedure may be amended by vote of the Council.

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DIVISIONS OF THE AMERICAN ASSOCIATION

In accordance with the provisions of the By-Laws of the Association (Art. VI) two regional divisions have been established. Each division operates under its own constitution, which has been ratified by the Council or the Executive Committee of the Association. Each division collects the entrance fees of new members and the first annual dues of each new member. It retains the entrance fees for its own expenses and transmits the annual dues to the permanent secretary's office. After the first year of membership, members of the divisions receive their annual statements from the permanent secretary's office, and they pay their annual dues to that office. Each division receives from the permanent secretary's office one dollar for each payment of annual dues received from Association members resident in the region of the division at the time dues are received. Members of the divisions have all the obligations and privileges of other members of the Association. The constitutions of the two divisions follow.

CONSTITUTION OF THE PACIFIC DIVISION OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Article 1—Purposes

The purposes of the Pacific Division of the American Association for the Advancement of Science are to encourage research in all branches of science, pure and applied, to diffuse knowledge, and to foster the scientific spirit among the people, by Division meetings held within the Pacific Coast region, and by such other means as the Executive Committee of the Division may adopt.

Article 2—Territory

The Pacific Coast region includes: the states of Washington, Oregon, California, Idaho, Nevada and Utah; Alaska; the Province of British Columbia; Mexico, excepting the states of Sonora and Chihuahua; the Hawaiian Islands; the Philippine Islands; and other islands of the Pacific Ocean.

Article 3—Membership

The membership of the Pacific Division shall consist of: (a) Individuals living in the Pacific Coast region who are members or fellows of the American

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Association for the Advancement of Science; and (b) Affiliated Societies. Individual members or fellows living in the Pacific Coast region shall enjoy all the privileges of members and fellows, respectively, of the American Association.

Article 4—Affiliated Societies

It is a purpose of the Pacific Division to promote the interests of science through definite and formal coöperation with all scientific societies of good standards represented in the Pacific Coast region. Formal invitation to membership by affiliation shall be extended to societies by a two-thirds vote of the Executive Committee. Those societies which accept this invitation and whose presidents sign the Constitution of the Pacific Division shall be known as Affiliated Societies.

Article 5—Officers

The officers of the Pacific Division shall consist of a President, a Vice-President and Chairman of the Executive Committee, and a Secretary-Treasurer. These officers shall be elected by the Executive Committee of the Division. The President and Vice-President shall be elected from the fellows of the Division.

Article 6—President

The President shall be elected as soon as practicable following the close of an annual meeting and shall serve from the date of his election to the close of the next annual meeting. He shall preside over all general meetings of the Division and deliver an address on some subject selected by him at the first annual meeting of the Division following the close of his term of office.

Article 7—Vice-President and Chairman of the Executive Committee

The Vice-President and Chairman of the Executive Committee shall be elected as soon as practicable following the close of an annual meeting and shall serve from the date of his election to the close of the third succeeding annual meeting. He shall preside at all meetings of the Executive Committee, and, in the absence of the President, at all general meetings of the Division.

Article 8—Secretary-Treasurer

The Secretary-Treasurer shall be elected for a term of three years but he shall serve further until the election of his successor. He shall keep the records of the Division, of the Executive Committee, and of the Affiliation Committee. He shall receive and transmit dues and fees received from members and fellows to the Permanent Secretary of the American Association. He shall arrange for the printing of programs prepared by the Executive Committee, the Affiliated Societies, and the Sections, prior to the meetings concerned. He shall

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incur expenses only as authorized by the Executive Committee, and shall pay out money only on accounts approved by the Chairman of the Executive Committee. He shall perform such other duties as may be assigned to him by the Executive Committee.

Article 9—Executive Committee

The Executive Committee shall consist of the President, the Vice-President (who shall be ex-officio Chairman of the Committee), and seven members elected from the fellows of the Pacific Division. Not more than two of the seven members elected by the Division shall be representative of the same division of science.

Vacancies occurring in the Executive Committee by the expiration of the terms of office of its members elected by the Division shall be filled by elections, and the persons so elected shall serve for five years. The election of the members of this Committee shall occur at the general annual meetings of the Division by the ballots of the individual members and fellows of the Division. Those candidates receiving the highest number of votes consecutively shall be declared elected for the position about to become vacant. The terms of office of members of the Executive Committee shall terminate at the close of the annual meetings at which their successors are elected. A vacancy occurring before the expiration of the term of office of a member may be filled by the President's appointment, and such an appointee shall serve until there is opportunity to fill the vacancy by election at a general annual meeting. Five members of the Executive Committee shall constitute a quorum. Unless otherwise specified decisions of the Executive Committee shall be made by a majority vote of the members present.

It shall be the duty of the Executive Committee, as soon as practicable after the close of each annual meeting, to elect: a President for the term then beginning; a Vice-President, if a vacancy exists; and a Secretary-Treasurer, if a vacancy exists or is about to occur. These elections shall be made by a majority vote of all members of the Executive Committee, and this vote shall be by ballots handed or mailed to the Secretary-Treasurer of the Division.

The Executive Committee shall likewise elect the officers of any Sections which may be organized, and take any necessary action on Sectional programs. The Executive Committee shall have charge of all general business affecting the welfare of the Pacific Division that is not otherwise delegated by the Constitution.

Article 10—Nominating Committee

Sixty days or more prior to each annual meeting of the Pacific Division, the Vice-President shall appoint a Nominating Committee to consist of three fellows of the Division. This Committee shall nominate candidates for election to fill vacancies about to occur in the elective membership of the Executive Committee elected by the Division, and shall present its report at

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a general session of the annual meeting. The list of nominations shall contain twice as many names as there are vacancies to be filled.

Article 11—Affiliation Committee

The Affiliation Committee shall consist of the President, the Vice-President, one other member of the Executive Committee of the Division, and two delegates from each Affiliated Society. The President of the Division shall be ex-officio Chairman of this committee; but for such meetings as the President cannot attend, the Committee shall select a Chairman *pro tempore*. The Secretary-Treasurer of the Division shall serve as Secretary of this Committee.

It shall be the duty of this Committee to consider and act upon such affiliation relationships, not defined by the Constitution, as affect the welfare of the Affiliated Societies collectively or in their relations to each other. It shall have the right to levy assessments on the Affiliated Societies for the expenses of general meetings of the Division which include the coöperation of the Affiliated Societies, by ballots mailed to the Secretary-Treasurer, upon majority of votes cast. The Committee shall consider such other subjects as are referred to it from general meetings of the Division. The regular meetings of the Affiliation Committee shall be held in connection with the general meetings of the Division; other meetings may be held at the call of the Chairman. A majority of the membership of this Committee shall constitute a quorum, and all decisions shall be by a majority vote of the members present.

Article 12—Meetings of the Division

The Division shall hold one general annual meeting for the presentation of technical and general programs, and such special meetings as the Executive Committee may appoint and arrange for.

Article 13—Arrangement of Program

The Executive Committee shall arrange for all general sessions, public lectures, and general scientific programs.

The Pacific Division shall organize or maintain no Sections for the presentation of technical programs in the branches of science represented by Affiliated Societies.

The Executive Committee may organize Sections to present programs in those branches of science for which no other provision has been made, such Sections to be maintained only until those subjects shall be provided for by Affiliated Societies.

The technical programs in the branches of science represented by the Affiliated Societies shall be organized by the separate societies with one member of the Executive Committee of the Pacific Division as a member of the Program Committee of each Society. Individual members of the Pacific Division who are not members of Affiliated Societies may present worthy papers in

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the proper programs and take reasonable part in the discussion of papers under the same regulations that govern participation by members of Affiliated Societies.

Any Affiliated Society deciding that its interest will be best served in any given year by holding its annual meetings at some other time or place than that selected for the general meeting of the Division may have this privilege without loss of affiliation, provided its presiding officer notifies the Executive Committee promptly in writing of the reasons governing this action, and the Division shall not establish a temporary Section to represent the subject in question.

Article 14—Officers of Sections

Chairmen of Sections shall be elected for terms of one year by the Executive Committee, upon the recommendation of the Sections. They shall preside over the meetings of the Sections.

Secretaries of Sections shall be elected by the Executive Committee for terms of three years. They shall keep the records of the proceedings of their Sections and transmit these records to the Executive Committee as required.

The Chairman and Secretary of each Section and one member of the Executive Committee of the Division shall constitute a Committee to prepare the program for the Section.

Article 15—Papers and Communications

A member or fellow who desires to read a paper before a Section of the Division should present in writing to the Secretary of the Section, at least twenty-four hours before the opening of the series of meetings, the full title of the paper, the time required for delivery, and an abstract of its contents; and no title shall be considered by the Sectional Committee until an abstract of the paper, or the paper itself, has been received by the Committee.

Program Committees of Sections may invite papers and discussions by nonmembers who are recognized as having made definite contributions to the advancement of their subjects.

Article 16—Finance

Fees and dues received from members and fellows, with the exception of assessments from Affiliated Societies, shall be transmitted to the Permanent Secretary of the American Association, who will supply receipts.

Funds received from patrons in the Pacific Coast region and from gifts, bequests or other similar sources, shall be invested as trust funds by the Executive Committee, and the income therefrom shall be expended for the advancement and diffusion of knowledge.

The Executive Committee shall have authority to maintain and administer special funds, such as local contributions for special purposes, moneys appropriated by Affiliated Societies, and other funds not named herein.

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The salary of the Secretary-Treasurer of the Pacific Division shall be fixed by the Council of the American Association, upon recommendations of the Executive Committee of the Pacific Division, and shall be paid from appropriations made by the Council. Appropriations for administrative and other expenses shall be made by the Council, in the same manner, and shall be expended as described in Article 8.

Article 17—Termination of Membership

Individual memberships may be terminated in accordance with the provisions of the Constitution of the American Association governing this subject.

An Affiliated Society in good standing may withdraw from membership by vote of its members and by formal notice of this action sent to the Executive Committee.

An Affiliated Society may be dropped from membership for lack of coöperation, non-payments of assessments, lowness of standards, or other reasons, by a two-thirds vote of the Executive Committee, and of the Affiliation Committee, and upon formal notification of the Society by the Secretary-Treasurer of the Division that this action has been taken.

Article 18—Changes in the Constitution

No part of this Constitution shall be changed without the concurrence of two-thirds of the members and fellows present in a general session of the Pacific Division, after written notice given at a general session of a preceding general meeting of the Pacific Division; changes affecting the status of the Affiliated Societies shall require an affirmative vote of the Affiliation Committee; and all changes to become effective shall require ratification by the Council of the American Association.

Article 19—Ratification

This Constitution shall become effective upon ratification by the Council of the American Association.*

CONSTITUTION OF THE SOUTHWESTERN DIVISION OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Article 1—Purposes

The purposes of the Southwestern Division of the American Association for the Advancement of Science are to encourage research in all branches of science, pure and applied, to diffuse knowledge, and to foster the scientific spirit among the people, by Division meetings held within the Southwestern region, and by such other means as the Executive Committee of the Division may adopt.

* This Constitution was ratified by the Council of the American Association for the Advancement of Science Washington, D. C., April 21, 1914.

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Article 2—Territory

The Southwestern region includes the states of Arizona, New Mexico, that portion of Texas west of the Pecos river (approximately the 102nd meridian), together with the Mexican states of Sonora and Chihuahua, and other adjacent regions and states as shall be hereafter included.

Article 3—Membership

The membership of the Southwestern Division shall consist of: (a) Individuals living in the Southwestern region who are members or fellows of the American Association for the advancement of Science; and (b) Affiliated Societies. Individual members and fellows of the American Association living in the Southwestern region shall enjoy all the privileges of members of the Southwestern Division.

Article 4—Affiliated Societies

It is a purpose of the Southwestern Division to promote the interests of science through definite and formal coöperation with all scientific societies of good standards represented in the Southwestern region. Formal invitation to membership by affiliation shall be extended to societies by a two-thirds vote of the Executive Committee. Those societies which accept this invitation and whose presidents sign the Constitution of the Southwestern Division, shall be known as Affiliated Societies.

Article 5—Officers

The officers of the Southwestern Division shall consist of a President, a Vice-President and Chairman of the Executive Committee, and a Secretary-Treasurer. These officers shall be elected by the Executive Committee of the Division. The President and Vice-President shall be elected from the fellows of the Division.

Article 6—President

The President shall be elected as soon as practicable following the close of an annual meeting and shall serve from the date of his election to the close of the next annual meeting. He shall preside over all general meetings of the Division and deliver an address on some subject selected by him at the first annual meeting of the Division following the close of his term of office.

Article 7—Vice-President and Chairman of the Executive Committee

The Vice-President and Chairman of the Executive Committee shall be elected as soon as practicable following the close of an annual meeting and shall serve from the date of his election to the close of the third succeeding annual meeting. He shall preside at all meetings of the Executive Committee, and, in the absence of the President, at all general meetings of the Division.

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Article 8—Secretary-Treasurer

The Secretary-Treasurer shall be elected for a term of three years but he shall serve further until the election of his successor. He shall keep the records of the Division, of the Executive Committee, and of the Affiliation Committee. He shall receive and transmit dues and fees received from members and fellows to the Permanent Secretary of the American Association. He shall arrange for the printing of programs prepared by the Executive Committee, the Affiliated Societies, and the Sections prior to the meetings concerned. He shall incur expenses only as authorized by the Executive Committee, and shall pay out money only on accounts approved by the Chairman of the Executive Committee. He shall perform such other duties as may be assigned to him by the Executive Committee.

Article 9—Executive Committee

The Executive Committee shall consist of the President, of the Vice-President, who shall be ex-officio the Chairman of the Committee, and of five members elected from the fellows of the Southwestern Division. Not more than two of the five members elected by the Division shall be representative of the same division of science.

Vacancies occurring in the Executive Committee by the expiration of the terms of office of its members elected by the Division shall be filled by elections, and the persons so elected shall serve for three years. The election of the members of this Committee shall occur at the general annual meetings of the Division by the ballots of the individual members and fellows of the Division. Those candidates receiving the highest number of votes consecutively shall be declared elected for the positions about to become vacant. The terms of office of members of the Executive Committee shall terminate at the close of the annual meetings at which their successors are elected. A vacancy occurring before the expiration of the term of office of a member may be filled by the President's appointment, and such an appointee shall serve until there is opportunity to fill the vacancy by election at a general annual meeting. Four members of the Executive Committee shall constitute a quorum. Unless otherwise specified decisions of the Executive Committee shall be made by a majority of the members present.

It shall be the duty of the Executive Committee, as soon as practicable after the close of each annual meetig, to elect: a President for the term then beginning; a Vice-President if a vacancy exists; and a Secretary-Treasurer, if a vacancy exists or is about to occur. These elections shall be made bv a majority vote of all members of the Executive Committee, and this vote shall be bv ballots handed or mailed to the Secretarv-Treasurer of the Division.

The Executive Committee shall likewise elect the officers of anv Sections which may be organized, and take anv necessarv action on Sectional programs.

The Executive Committee shall have charge of all general business affecting the welfare of the Southwestern Division that is not otherwise delegated bv the Constitution.

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Article 10—Nominating Committee

Sixty days or more prior to each annual meeting of the Southwestern Division, the Vice-President shall appoint a Nominating Committee to consist of three fellows of the Division. This Committee shall nominate candidates for election to fill vacancies about to occur in the elective membership of the Executive Committee elected by the Division, and shall present its report at a general session of the annual meeting. The list of nominations shall contain twice as many names as there are vacancies to be filled.

Article 11—Affiliation Committee

The Affiliation Committee shall consist of the President, the Vice-President, and of one delegate from each Affiliated Society. The President of the Division shall be ex-officio Chairman of this committee; but for such meetings as the President cannot attend, the Committee shall select a Chairman *pro tempore*. The Secretary-Treasurer of the Division shall serve as Secretary of this Committee.

It shall be the duty of this Committee to consider and act upon such affiliation relationships, not defined by the Constitution, as affect the welfare of the Affiliated Societies collectively or in their relations to each other. It shall have the right to levy assessments on the Affiliated Societies for the expenses of general meetings of the Division which include the coöperation of the Affiliated Societies, by ballots mailed to the Secretary-Treasurer, upon majority of votes cast. The Committee shall consider such other subjects as are referred to it from general meetings of the Division; other meetings may be held at the call of the Chairman. A majority of the membership of this Committee shall constitute a quorum, and all decisions shall be by a majority vote of the members present.

Article 12—Meetings of the Division

The Division shall hold one general annual meeting for the presentation of technical and general programs, and such special meetings as the Executive Committee may appoint and arrange for.

Article 13—Arrangement of Programs

The Executive Committee shall arrange for all general sessions, public lectures, and general scientific programs.

The Southwestern Division shall organize or maintain no Sections for the presentation of technical programs in the branches of science represented by Affiliated Societies.

The Executive Committee may organize Sections to present programs in those branches of science for which no other provision has been made, such Sections to be maintained only until those subjects shall be provided for by Affiliated Societies.

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The technical programs in the branches of science represented by the Affiliated Societies shall be organized by the separate societies, with one member of the Executive Committee of the Southwestern Division as a member of the Program Committee of each Society. Individual members of the South western Division who are not members of Affiliated Societies may present worthy papers in the proper programs and take reasonable part in the discussion of papers under the same regulations that govern participation by members of Affiliated Societies.

Any Affiliated Society deciding that its interests will be best served in any given year by holding its annual meetings at some other time or place than that selected for the general meeting of the Division may have this privilege without loss of affiliation, providing its presiding officer notifies the Executive Committee promptly in writing of the reasons governing the action, and the Division shall not establish a temporary Section to represent the subject in question.

Article 14—Officers of Sections

Chairmen of Sections shall be elected for terms of one year by the Executive Committee, upon the recommendation of the Sections. They shall preside over the meetings of the Sections.

Secretaries of Sections shall be elected by the Executive Committee for terms of three years. They shall keep the records of the proceedings of their Sections and transmit these records to the Executive Committee as required.

The Chairman and Secretary of each Section and one member of the Executive Committee of the Division shall constitute a Committee to prepare the program for the Section.

Article 15—Papers and Communications

A member or fellow who desires to read a paper before a Section of the Division should present in writing to the Secretary of the Section, at least twenty-four hours before the opening of the series of meetings, the full title of the paper, the time required for delivery, and an abstract of its contents; and no title shall be considered by the Sectional Committee until an abstract of the paper, or the paper itself, has been received by the Committee.

Program Committees of Sections may invite papers and discussions by non-members who are recognized as having made definite contributions to the advancement of their subjects.

Article 16—Finance

Fees and dues received from members and fellows, with the exception of assessments from Affiliated Societies, shall be transmitted to the Permanent Secretary of the American Association, who will supply receipts.

Funds received from the patrons in the Southwestern region and from gifts, bequests, or other similar sources, shall be invested as trust funds by the

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Executive Committee, and the income therefrom shall be expended for the advancement and diffusion of knowledge.

The Executive Committee shall have authority to maintain and administer special funds such as local contributions for special purposes, moneys appropriated by Affiliated Societies, and other funds not named herein.

Article 17—Termination of Membership

Individual membership may be terminated in accordance with the provisions of the Constitution of the American Association governing this subject.

An Affiliated Society in good standing may withdraw from membership by vote of its members and by formal notice of this action sent to the Executive Committee.

An Affiliated Society may be dropped from membership for lack of coöperation, nonpayment of assessments, lowness of standards, or other reasons, by a two-thirds vote of the Executive Committee and of the Affiliation Committee, and upon formal notification of the Society by the Secretary-Treasurer of the Division that this action has been taken.

Article 18—Changes in the Constitution

No part of this Constitution shall be changed without the concurrence of two-thirds of the members and fellows present in a general session of the Southwestern Division, after written notice given at a general session of a preceding general meeting of the Southwestern Division, and all changes to become effective shall require ratification by the Executive Committee of the American Association;* changes affecting the status of the Affiliated Societies shall require an affirmative vote of the Affiliation Committee.

ACADEMIES OF SCIENCE, ETC., HAVING A FINANCIAL ARRANGEMENT WITH THE AMERICAN ASSOCIATION THROUGH AFFILIATION

Twelve academies of science, and also the Southern Education Society, are affiliated with the Association by a form of coöperation that carries certain financial obligations. The affiliated academies collect the Association dues of their national members (who are also members of the Association), and they transmit to the permanent secretary's office four dollars of each of the annual payments. They are supplied with printed and addressed statements prepared by the permanent secretary's office. Acade-

* This Constitution was ratified by the Executive Committee of the Council of the American Association for the Advancement of Science, Washington, D. C., April, 1920.

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mies collect the entrance fees and the first annual dues of their new national members; they retain the entrance fees and one dollar for each of the annual payments collected from their national members. Exception is made for life members of the Association and members of the divisions. The Southern Education Society has a coöperative arrangement with the Association, similar to that of the affiliated academies.

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THE ROLL OF THE PRESIDENTS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE FROM ITS ORGANIZATION TO THE YEAR 1921*

The number before the name is that of the meeting at which the president presided. The fiscal year of the meeting follows the name. An asterisk after a name indicates that the member is deceased.

1. WM. B. ROGERS,* 1848.
   W. C. REDFIELD,* 1848.
2. JOSEPH HENRY,* 1849.
3. A. D. BACHE,* March meeting, 1850, in the absence of
4. JOSEPH HENRY.* August meeting, 1850.
5. May meeting, 1851.
6. LOUIS AGASSIZ,* August meeting, 1851.
   (No meeting in 1852.)
7. BENJAMIN PIERCE,* 1853.
8. JAMES D. DANA,* 1854.
9. JOHN TORREY,* 1855.
10. JAMES HALL,* 1856.
11. ALEXIS CASWELL,* 1857, in place of J. W. BAILEY,* deceased.
12. 1858, in the absence of JEFFRIES WYMAN.*
13. STEPHEN ALEXANDER,* 1859.
14. ISAAC LEA,* 1860.
    (No meetings for 1861–65.)
15. F. A. P. BARNARD,* 1866.
16. J. S. NEWBERRY,* 1867.
17. B. A. GOULD,* 1868.
18. J. W. FOSTER,* 1869.
19. T. STERRY HUNT,* 1870, in the absence of WM. CHAUVENET.*
20. ASA GRAY,* 1871.
21. J. LAWRENCE SMITH,* 1872.
22. JOSEPH LOVERING,* 1873.
23. J. L. LECONTE,* 1874.
24. J. E. HILGARD,* 1875.
25. WILLIAM B. ROGERS,* 1876.
26. SIMON NEWCOMB,* 1877.
27. O. C. MARSH,* 1878.
28. G. F. BARKER,* 1879.
29. LEWIS H. MORGAN,* 1880.
30. G. J. BRUSH,* 1881.
31. J. W. DAWSON,* 1882.
32. C. A. YOUNG,* 1883.
33. J. P. LESLEY,* 1884.
34. H. A. NEWTON,* 1885.

* The annual meeting for any year occurs about three months after the beginning of that fiscal year, and the fiscal year begins on the October 1 preceding the meeting. Thus, the St. Louis meeting (December 29, 1919, to January 3, 1920) was the annual meeting for the fiscal year 1920, and this fiscal year began October 1, 1919. This plan for the designation of the annual meeting differs somewhat from that followed in the 1915 volume of the Summarized Proceedings. The officers are elected at annual meetings and their terms of office begin at the close of the annual meeting at which they are elected. Thus, the term of office of the President for the 72nd annual meeting (1919–1920) began December 29, 1919, and ended January 3, 1920. He gave his address as Retiring President at the 73rd annual meeting. The numbers referring to years in this list of presidents are for the respective fiscal years, since the Philadelphia meeting. (See also Editor's note at beginning of the volume.)

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35. Edward S. Morse,* 1886.
36. S. P. Langley,* 1887.
37. J. W. Powell,* 1888.
38. T. C. Mendenhall, 1889.
39. G. Lincoln Goodale, 1890.
40. Albert B. Prescott,* 1891.
41. Joseph LeConte,* 1892.
42. William Harkness,* 1893.
43. Daniel G. Brinton,* 1894.
44. E. W. Morley, 1895.
45. Edward D. Cope,* 1896. Theodore Gill,* as senior vice-president acted after the death of Professor Cope.
46. Wolcott Gibbs,* 1897, absent. W J McGee,* Acting President.
47. F. W. Putnam,* 1898.
48. Edward Orton,* 1899. Marcus Benjamin, as senior vice-president, acted until the election of Grove K. Gilbert by the General Committee, December, 1899, to fill the vacancy caused by the death of Professor Orton.
49. R. S. Woodward, 1900.
50. C. S. Minot,* 1901.
51. Asaph Hall,* 1902.
52. Ira Remsen, 1903.
53. Carroll D. Wright,* 1904.
54. W. G. Farlow,* 1905.
55. C. M. Woodward,* 1906.
56. W. H. Welch, 1906.
57. W. H. Welch, 1907.
58. E. L. Nichols, 1908.
59. T. C. Chamberlin, 1908.
60. T. C. Chamberlin, 1909.
61. David S. Jordan, 1910.
62. A. A. Michelson, 1911.
63. Charles E. Bessey,* 1912.
64. E. C. Pickering,* 1913.
65. Edmund B. Wilson, 1914.
66. Charles W. Eliot, 1915.
67. W. W. Campbell, 1915.
68. W. W. Campbell, 1916.
69. Charles Richard Van Hise,* 1917.
70. Theodore W. Richards, 1918.
71. John Merle Coulter, 1919.
72. Simon Flexner, 1920.
73. L. O. Howard, 1921.
74. E. H. Moore, 1922.

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THE VICE-PRESIDENTS, SECRETARIES, AND TREASURERS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE FROM ITS ORGANIZATION TO THE YEAR 1921

For a complete list of the vice-presidents, secretaries, and treasurers to the year 1915, see the preceding volume of the PROCEEDINGS (volumes LXIII—LXVI, combined; published in 1915), pages 36–48. The following lists are to be added to those there shown. The number preceding the officer's name is that of the meeting at which he officiated, and the number following denotes the calendar year of his official term. (See footnote, page 40.)

VICE-PRESIDENTS FOR THE SECTIONS

For 1916–1920, before the reorganization

SECTION A. MATHEMATICS AND ASTRONOMY

67. ARMIN O. LEUSCHNER, 1915.
68. ARMIN O. LEUSCHNER, 1915.
69. LUTHER P. EISENHART, 1916.
70. HENRY NORRIS RUSSELL, 1917.
71. GEORGE D. BIRKHOFF, 1918.
72. OLIVER DIMON KELLOGG, 1919.

SECTION B. PHYSICS

67. E PERCIVAL LEWIS, 1915.
68. E. PERCIVAL LEWIS, 1915.
69. HENRY A. BUMSTEAD, 1916.
70. WILLIAM J. HUMPHREYS, 1917.
71. GORDON F. HULL, 1918.
72. MAX MASON, 1919.

SECTION C. CHEMISTRY

67. WILLIAM MCPHERSON, 1915.
68. WILLIAM MCPHERSON, 1915.
69. JULIUS STEIGLITZ, 1916.
70. WILLIAM ALBERT NOYES, 1917.
71. ALEXANDER SMITH, 1918.
72. BENJAMIN F. LOVELACE, 1919.

SECTION D. ENGINEERING

67. BION J. ARNOLD, 1915.
68. BION J. ARNOLD, 1915.
69. HENRY M. HOWE, 1916.
70. HENRY STURGIS DRINKER, 1917.
71. IRA N. HOLLIS, 1918.
72. IRA N. HOLLIS, 1919.

SECTION E. GEOLOGY AND GEOGRAPHY

67. CHARLES S. PROSSER, 1915.
68. CHARLES S. PROSSER, 1915.
69. ROLLIN D. SALISBURY, 1916.
70. GEORGE HENRY PERKINS, 1917.
71. DAVID WHITE, 1918.
72. CHARLES KENNETH LEITH, 1919.

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Section F. Zoology

67. Vernon L. Kellogg, 1915.
79. George H. Parker, 1916.
71. William Patten, 1918.

68. Vernon L. Kellogg, 1915.
70. Herbert Osborn, 1917.
72. William M. Wheeler, 1919.

Section G. Botany

67. William A. Setchell, 1915.
69. C. Stuart Gager, 1916.
71. A. F. Blakeslee, 1918.

68. William A. Setchell, 1915.
70. Burton E. Livingston, 1917.
72. Louis H. Pammel, 1919.

Section H. Anthropology and Psychology

67. Lillien J. Martin, 1915.
69. Frederick W. Hodge, 1916.
71. Ales Hrdlicka, 1918.

68. Lillien J. Martin, 1915.
70. Edward L. Thorndike, 1917.
72. Robert M. Yerkes, 1919.

Section I. Social and Economic Science

67. George E. Kunz, 1915.
69. Louis I. Dublin, 1916.
71. John Barrett, 1918.

68. George E. Kunz, 1915.
70. George Walbridge Perkins, 1917.
72. David Jayne Hill, 1919.

Section K. Physiology and Experimental Medicine

67. Frederick P. Gay, 1915.
69. Edwin O. Jordan, 1916.
71. Frederick S. Lee, 1918.

68. Frederick P. Gay, 1915.
70. Charles-Edward Amory Winslow, 1917.
72. Frederic S. Lee, 1919.

Section L. Education

67. Ellwood P. Cubberly, 1915.
69. Leonard P. Ayers, 1916.
71. Stuart A. Courtis, 1918.

68. Ellwood P. Cubberley, 1915.
70 Edw. Franklin Buchner, 1917.
72. Vivian A. C. Henmon, 1919.

Section M. Agriculture

67. Eugene Davenport, 1915.
69. Whitman H. Jordan, 1916.
71. Henry P. Armsby, 1918.

68. Eugene Davenport, 1915.
70. Henry Jackson Waters, 1917.
72. Albert F. Woods, 1919.

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SECRETARIES

For 1916–20, before the reorganization of sections.

Permanent Secretary

67–72. L. O. Howard, 1915–1920.

General Secretaries

67. Henry Skinner, 1915.
68. Henry Skinner, 1915.
69. William E. Henderson, 1916.
70. James McKeen Cattell, 1917.
71. O. E. Jennings, 1918.
72. George T. Moore, 1919.

Secretaries of the Council

67. William E. Henderson, 1915.
68. William E. Henderson, 1915.
69. C. Stuart Gager, 1916.
70. W. VanDyke Bingham, 1917.
71. (No election.)
72. Alexander S. Langsdorf, 1919.

Secretaries of the Sections

Section A. Mathematics and Astronomy

67. Forest R. Moulton, 1915.
68. Forest R. Moulton, 1915.
69. Forest R. Moulton, 1916.
70. Forest R. Moulton. 1917.
71. Forest R. Moulton, 1918.
72. Forest R. Moulton, 1919.

Section B. Physics

67. William J. Humphreys, 1915.
68. William J. Humphreys, 1915.
69. William J. Humphreys, 1916.
70. George Walter Stewart, 1917.
71. George Walter Stewart, 1918.
72. George Walter Stewart, 1919.

Section C. Chemistry

67. John Johnston, 1915.
68. John Johnston, 1915.
69. John Johnston, 1916.
70. George D. Beal, 1917.
71. Arthur A. Blanchard, 1918.
72. Charles E. Caspari, 1919.

Section D. Engineering

67. Arthur H. Blanchard, 1915.
68. Arthur H. Blanchard, 1915.
69. Arthur H. Blanchard, 1916.
70. Arthur H. Blanchard, 1917.
71. F. L. Bishop, 1918.
72. F. L. Bishop, 1919.

Section E. Geology and Geography

67. George F. Kay, 1915.
68. George F. Kay, 1915.
69. George F. Kay, 1916.
70. Rollin T. Chamberlin, 1917.
71. Rollin T. Chamberlin, 1918.
72. Rollin T. Chamberlin, 1919

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Section F. Zoology

67. Herbert V. Neal, 1915.
68. Herbert V. Neal, 1915.
69. Herbert V. Neal, 1916.
70. Herbert V. Neal, 1917.
71. W. C. Allee, 1918.
72. Herbert V. Neal, 1919.

Section G. Botany

67. W. J. V. Osterhout, 1915.
68. W. J. V. Osterhout, 1915.
69. Albert F. Blakeslee, 1916.
70. Albert F. Blakeslee, 1917.
71. Mel T. Cook, 1918.
72. Mel T. Cook, 1919.

Section H. Anthropology and Psychology

67. George G. MacCurdy, 1915.
68. George V. MacCurdy, 1915.
69. George G. MacCurdy, 1916.
70. E. K. Strong, Jr., 1917.
71. E. K. Strong, Jr., 1918.
72. E. K. Strong, Jr., 1919.

Section I. Social and Economic Science

67. Seymour C. Loomis, 1915.
68. Seymour C. Loomis, 1915.
69. Seymour C. Loomis, 1916.
70. Seymour C. Loomis, 1917.
71. Seymour C. Loomis, 1918.
72. Seymour C. Loomis, 1919.

Section K. Physiology and Experimental Medicine

67. Charles-E. A. Winslow, 1915.
68. Charles-E. A. Winslow, 1915.
69. Charles-E. A. Winslow, 1917.
70. A. J. Goldfarb, 1917.
71. A. J. Goldfarb, 1918.
72. A. J. Goldfarb, 1919.

Section L. Education

67. Stuart A. Courtis, 1915.
68. Stuart A. Courtis, 1915.
69. Stuart A. Courtis, 1916.
70. Stuart A. Courtis, 1917.
71. Bird T. Baldwin, 1918.
72. Bird T. Baldwin, 1919.

Section M. Agriculture

67. Edwin W. Allen, 1915.
68. Edwin W. Allen, 1915.
69. Edwin W. Allen, 1916.
70. Edwin W. Allen, 1917.
71. Edwin W. Allen, 1918.
72. Jacob G. Lipman, 1919.

TREASURER

68–73. R. S. Woodward, 1915–1921.

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THE VICE-PRESIDENTS, SECRETARIES, AND TREASURER

(After the reorganization)

The number of the meeting is that of the meeting at which the officer officiated, and the calendar year is the calendar year of his official term.

VICE-PRESIDENTS AND SECTION SECRETARIES

SECTION	NUMBER OF MEETING	CALENDAR YEAR	VICE-PRESIDENT	SECRETARY
A. Mathematics	73	1920	David R. Curtiss	William H. Roever
	74	1921	Oswald Veblen	William H. Roever
B. Physics	73	1920	John C. McLennan	George W. Stewart
	74	1921	George W. Stewart	S. R. Williams
C. Chemistry	73	1920	Samuel W. Parr	Charles E. Caspari
	74	1921	W. D. Harkins	Gerald L. Wendt
D. Astronomy	73	1920	Joel Stebbins	Forest R. Moulton
	74	1921	S. A. Mitchell	Forest R. Moulton
E. Geology and Geography	73	1920	Eliot Blackwelder	Rollin T. Chamberlin
	74	1921	Willet G. Miller	Elwood S. Moore
F. Zoological Sciences	73	1920	John S. Kingsley	Herbert V. Neal
	74	1921	C. A. Kofoid	Herbert W. Rand
G. Botanical Sciences	73	1920	Rodney H. True	Mel. T. Cook
	74	1921	Mel. T. Cook	Robert B. Wylie
H. Anthropology	73	1920	Albert Ernest Jenks	E. A. Hooton
	74	1921	Albert Ernest Jenks	E. A. Hooton
I. Psychology	73	1920	Edward K. Strong, Jr.	F. N. Freeman
	74	1921	E. A. Bott	F. N. Freeman
K. Social and Economic Sciences	73	1920	Frederick L. Hoffman	Seymour C. Loomis
	74	1921	W. B. Parsons	Seymour C. Loomis
L. Historical and Philological Sciences	73	1920	(No election)	(No election)
M. Engineering	73	1920	Carl Leo Mees	Frederic L. Bishop
	74	1921	J. B. Tyrrell	L. W. Wallace
N. Medical Sciences	73	1920	Joseph Erlanger	A. J. Goldfarb
O. Agriculture	73	1920	E. W. Allen	Jacob G. Lipman
	74	1921	Jacob G. Lipman	P. E. Brown
Q. Education	73	1920	Charles H. Judd	Bird T. Baldwin
	74	1921	Guy M. Whipple	Bird T. Baldwin

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PERMANENT SECRETARIES

73. L. O. Howard, 1920 (to February 1, 1920).
    Burton E. Livingston, 1920 (from February 1, 1920).
74. Burton E. Livingston (1921–24).

GENERAL SECRETARIES

73. Edward L. Nichols, 1920.
74. D. T. MacDougal (1921–24).

TREASURER

73. R. S. Woodward, (1920).
74. R. S. Woodward (1921–24)

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PROCEEDINGS

1915

For that part of the fiscal year 1914–15

following the fourth Philadelphia meeting (that meeting being reported in the preceding volume.)

The officers named are those for the calendar year 1915.

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GENERAL OFFICERS FOR THE CALENDAR YEAR 1915

PRESIDENT

WILLIAM WALLACE CAMPBELL, Lick Observatory, Mt. Hamilton, Cal.

RETIRING PRESIDENT

CHARLES WILLIAM ELIOT, Harvard University, Cambridge, Mass.

VICE-PRESIDENTS AND RETIRING VICE-PRESIDENTS FOR THE SECTIONS

SECTION A. MATHEMATICS AND ASTRONOMY

Vice-President, ARMIN O. LAUSCHNER; Univ. of California, Berkeley, Cal.
Retiring Vice-President, HENRY SEELY WHITE; Vassar College, Poughkeepsie, N. Y.

SECTION B. PHYSICS

Vice-President, E. PERCIVAL LEWIS; Univ. of California, Berkeley, Cal.
Retiring Vice-President, ANTHONY ZELENY; Univ. of Minnesota, Minneapolis, Minn.

SECTION C. CHEMISTRY

Vice-President, WILLIAM MCPHERSON; Ohio State Univ., Columbus, Ohio.
Retiring Vice-President, EDGAR F. SMITH; Univ. of Pennsylvania, Philadelphia, Pa.

SECTION D. ENGINEERING

Vice-President, BION J. ARNOLD; 105 South LaSalle St., Chicago, Ill.
Retiring Vice-President, FREDERICK WINSLOW TAYLOR; deceased.

SECTION E. GEOLOGY AND GEOGRAPHY

Vice-President, CHARLES S. PROSSER; Ohio State Univ., Columbus, Ohio.
Retiring Vice-President, ULYSSES S. GRANT; Northwestern Univ., Evanston, Ill.

SECTION F. ZOOLOGY

Vice-President, VERNON L. KELLOGG; Stanford University, Cal.
Acting Vice-President, for the San Francisco meeting, CHARLES A. KOFOID; Univ. of California, Berkeley, Cal.
Retiring Vice-President, FRANK R. LILLIE; Univ. of Chicago, Chicago, Ill.

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SECTION G. BOTANY

Vice-President, WILLIAM A. SETCHELL; Univ. of California, Berkeley, Cal.
Retiring Vice-President, GEORGE P. CLINTON; Connecticut Agric. Exp. Sta., New Haven, Conn.

SECTION H. ANTHROPOLOGY AND PSYCHOLOGY

Vice-President, LILLIEN J. MARTIN; Stanford University, Cal.
Retiring Vice-President, CLARK WISSLER; American Museum of Natural History, New York City.

SECTION I. SOCIAL AND ECONOMIC SCIENCE

Vice-President, GEORGE F. KUNZ; 601 Cathedral Parkway, New York City.
Retiring Vice-President, ELMER E. RITTENHOUSE; 25 West 45th St., New York City.

SECTION K. PHYSIOLOGY AND EXPERIMENTAL MEDICINE

Vice-President, FEDERICK P. GAY; Univ. of California, Berkeley, Cal.
Retiring Vice-President, RICHARD M. PEARCE; Univ. of Pennsylvania, Philadelphia, Pa.

SECTION L. EDUCATION

Vice-President, ELLWOOD P. CUBBERLEY; Stanford University, Cal.
Retiring Vice-President, PAUL H. HAMUS; Harvard Univ., Cambridge, Mass.

SECTION M. AGRICULTURE

Vice-President, EUGENE DAVENPORT; Univ. of Illinois, Urbana, Ill.
Retiring Vice-President, L. H. BAILEY; Cornell University, Ithaca, N. Y.

PERMANENT SECRETARY

L. O. HOWARD, Smithsonian Institution, Washington, D. C.

GENERAL SECRETARY

HENRY SKINNER; Academy of Natural Sciences, Philadelphia, Pa.

TREASURER

R. S. WOODWARD; Carnegie Institution of Washington, Washington, D. C.

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SECTION COMMITTEES FOR THE CALENDAR YEAR 1915

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J. M. COULTER (for one year).

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FRANZ BOAZ (for two years).
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THE SIXTY-SEVENTH MEETING
(THE FIRST PACIFIC COAST MEETING)

San Francisco, Stanford University, and Berkeley; August 2–7, 1915

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CARL C. PLEHN; Univ. of California, Berkeley, Cal.
FERNANDO SANFORD; Stanford University, Cal.
JAMES PERRIN SMITH; Stanford University, Cal.
G. M. STRATTON; Univ. of California, Berkeley, Cal.
OTTO VON GELDERN; San Francisco, Cal.
R. L. WILBUR; Stanford University, Medical School, San Francisco, Cal.
M. S. WILDMAN; Stanford University, Cal.

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FRANK S. DAGGETT; Museum of History, Science and Art, Los Angeles, Cal.
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JOHN GRINNELL; Univ. of California, Berkeley, Cal.
VICTOR H. HENDERSON; Univ. of California, Berkeley, Cal.
J. C. JONES; Univ. of Nevada, Reno, Nev.
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J. N. Bowman; Univ. of Washington, Seattle, Wash.
William A. Bryan; Coll. of Hawaii, Honolulu, T. H.
Henry F. Carhart; Pasadena, Cal.
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H. J. Ryan; Stanford University, Cal.
L. B. Stookey; Univ. of Southern California, Los Angeles, Cal.
H. B. Torrey; Reed Coll., Portland, Ore.

The Committee on Transportation

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A. O. Leuschner; Univ. of California, Berkeley, Cal.
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The Committee on Hotels and Accommodations

A. L. Kroeber, *Chairman;* Univ. of California, Berkeley, Cal.
T. C. Burnett; Univ. of California, Berkeley, Cal.
O. P. Jenkins; Stanford University, Cal.

REPORTS OF THE FIRST PACIFIC COAST MEETING

Published Reports

See Science **42**: 471–475. October 8, 1915.

General Sessions of the First Pacific Coast Meeting

(a) Address of the President of the Association, William Wallace Campbell; Lick Observatory, Mt. Hamilton, Cal.: "Science and Civilization." Monday morning, August 2, 1915.

(b) Public address by Reginald Alsworth Daly; Harvard University, Cambridge, Mass.: "Problems of the Pacific Islands." Tuesday evening, August 3, 1915.

(c) Public address by William Berryman Scott; Princeton University, Princeton, N. J.: "The Isthmus of Panama and its Influence on the Animal Life of North and South America." Thursday evening, August 5, 1915.

(d) Public address by Paul Samuel Reinsch, American Ambassador to China, Pekin, China: "The Economic Future of the Pacific." Friday evening, August 6, 1915.

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PROCEEDINGS

1916

For the fiscal year 1915–16

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THE SIXTY-EIGHTH MEETING

(SECOND COLUMBUS MEETING)

THE ANNUAL MEETING FOR THE FISCAL YEAR 1915–16; COLUMBUS, OHIO; DECEMBER 27, 1915, TO JANUARY 1, 1916

LOCAL COMMITTEES FOR THE SECOND COLUMBUS MEETING

THE EXECUTIVE COMMITTEE

J. A. BOWNOCKER, *Chairman.*
C. E. STEEB, *Treasurer.*
W. M. BARROWS.
J. E. BOYD.
C. S. CHUBB.
W. T. MAGRUDER.
WM. MCPHERSON.
R. MEIKLEJOHN.
W. O. THOMPSON.
MRS. W. O. THOMPSON.

THE COMMITTEE ON HOTELS AND LODGINGS

WM. MCPHERSON, *Chairman.*
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THE COMMITTEE ON LUNCHEON

C. E. STEEB, *Chairman.*
A. VIVIAN.
D. J. DEMOREST.

THE COMMITTEE ON ROOMS AND EQUIPMENT

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THE COMMITTEE ON PRINTING

R. MEIKLEJOHN, *Chairman.*
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THE COMMITTEE ON DECORATIONS

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A. G. McCall.
W. L. Evans.
Mrs. Alfred Vivian.
Mrs. F. L. Landacre.

The Ladies' Reception Committee

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Mrs. A. D. Cole.
Mrs. S. J. Barnett.
Mrs. W. T. Magruder.
Mrs. J. A. Bownocker.
Mrs. Wm. McPherson.
Mrs. F. C. Caldwell.
Mrs. H. Osborn.
Mrs. C. S. Prosser.

The Membership Committee

W. M. Barrows, *Chairman.*
A. G. McCall.
C. W. Foulk.

The Honorary Reception Committee

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Dr. T. C. Mendenhall; Ravenna, Ohio.
Dr. Emerson McMillin; New York City.
Dr. Washington Gladden; Columbus, Ohio.
Mr. Henry C. Taylor; Columbus, Ohio.
Mr. William P. Tracy; Columbus, Ohio.
Mr. Julius F. Stone; Columbus, Ohio.
President A. L. Breslich; Baldwin-Wallace College, Berea, Ohio.
President C. S. Howe; Case School of Applied Science, Cleveland, Ohio.
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President C. E. Miller; Heidelberg University, Tiffin, Ohio.
President M. L. Bates; Hiram College, Hiram, Ohio.
President W. F. Peirce; Kenyon College, Gambier, Ohio.
President V. B. Small; Lake Erie College, Painesville, Ohio.
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Professor Stephen R. Williams; Miami University, Oxford, Ohio.
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President H. C. King; Oberlin College, Oberlin, Ohio.
President Austin Ellis; Ohio University, Athens, Ohio.
President Herbert Welch; Ohio Wesleyan University, Delaware, Ohio.
President W. G. Clippinger; Otterbein University, Westerville, Ohio.
President W. W. Boyd; The Western College for Women, Oxford, Ohio.
President P. R. Kolbe; Univ. of Akron, Akron, Ohio.
President C. W. Dabney; Univ. of Cincinnati, Cincinnati, Ohio.
President Campbell White; Coll. of Wooster, Wooster, Ohio.
President C. W. Thwing; Western Reserve University, Cleveland, Ohio.
President C. G. Heckert; Wittenberg College, Springfield, Ohio.

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REPORTS OF THE SECOND COLUMBUS MEETING

PUBLISHED REPORTS

See SCIENCE 43, 36–38. Jan. 7, 1916.

GENERAL SESSIONS AT COLUMBUS

(a) Address of the Retiring President of the Association, DR. CHARLES W. ELIOT, President, Emeritus, of Harvard University, Cambridge, Mass. "The Fruits, Prospects, and Lessons of Recent Biological Science." Monday evening, December 27, 1916.—For this address see SCIENCE 42:919–930. Dec. 31, 1915.

(b) Public lecture by DR. DOUGLAS WILSON JOHNSON; Columbia University, New York City. "Surface Features of Europe as a Factor in the War." Tuesday evening, December 28, 1915.

(c) Public lecture under the auspices of Section D, by RAYMOND F. BACON, Director of the Mellon Institute of Industrial Research and School of Specific Industries; University of Pittsburgh, Pittsburgh, Pa. "The Industrial Fellows of the Mellon Institute—Five Years' Progress in a System of Industrial Service." Wednesday evening, Dec. 29, 1915.

(d) Public lecture under the auspices of Section C, by DR. FRANK K. CAMERON; Washington, D. C. "The Fertilizer Resources of the United States."

SESSIONS OF THE SECTIONS AT COLUMBUS

Section A. Mathematics and Astronomy

Address of the retiring Vice-President, PROFESSOR H. S. WHITE; Vassar College, Poughkeepsie, N. Y. "Poncelet Polygons."—For this address see SCIENCE 43: 149–158. Feb. 4, 1916.

Section B. Physics

Address of the retiring Vice-President, PROFESSOR ANTHONY ZELENY; University of Minnesota, Minneapolis, Minn. "The Dependence of Progress in Science on the Development of Instruments."—For this address see SCIENCE 43: 185–193. Feb. 11, 1916.

Report of the Secretary of Section B.—For this report see SCIENCE 44: 474. Sept. 29, 1916.

Section C. Chemistry

No Retiring Vice-Presidential address given.—Retiring Vice-President PROFESSOR EDGAR F. SMITH; University of Pennsylvania, Philadelphia, Pa.

Report of the Secretary of Section C.—For this report see SCIENCE 43: 112. Jan. 21, 1916.

Section D. Engineering

No Retiring Vice-Presidential address given.—Retiring Vice-President, F. W. TAYLOR, deceased.

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Section E. Geology and Geography

No Retiring Vice-Presidential address given.—Retiring Vice-President, PROFESSOR U. S. GRANT; Northwestern University, Evanston, Ill.

Report of the Secretary of Section E.—For this report see SCIENCE **43**: 394–400. March 17, 1916.

Section F. Zoology

Address of the Retiring Vice-President, PROFESSOR FRANK R. LILLIE; University of Chicago, Chicago, Ill. "The History of the Fertilization Problem."—For this address see SCIENCE **43**: 39–53. Jan. 14, 1916.

Section G. Botany

Address of the Retiring Vice-President, DOCTOR G. P. CLINTON; Connecticut Agricultural Experiment Station, New Haven, Conn. "Botany in Relation to Agriculture."—For this address see SCIENCE **43**: 1–13. Jan. 7, 1916.

Section H. Anthropology and Psychology

Address of the Retiring Vice-President, DOCTOR CLARK WISSLER, American Museum of Natural History, New York City. "Psychological and Historical Interpretations for Culture."—For this address see SCIENCE **43**: 193–201. Feb. 11, 1916.

Section I. Social and Economic Science.

Address of the Retiring Vice-President, HON. ELMER E. RITTENHOUSE; 25 West 45th St., New York City. "Upbuilding National Vitality—the Need for a Scientific Investigation."—For this address see SCIENCE **43**: 221–228. Feb. 18, 1916.

Section K. Physiology and Experimental Medicine

Address of the Retiring Vice-President, PROFESSOR RICHARD M. PEARCE; University of Pennsylvania, Philadelphia, Pa. "The Work and Opportunities of a Department of Research Medicine in the University."—For this address see SCIENCE **43**: 53–63. Feb. 14, 1916.

Section L. Education

Address of the Retiring Vice-President, PROFESSOR PAUL L. HANUS, Dean of Education, Harvard University; Cambridge, Mass. "City Superintendents' Reports."—For this address see SCHOOL AND SOCIETY **3**: 145–155, 186–198. Jan. 29, Feb. 5, 1916.

Section M. Agriculture

Address of the Retiring Vice-President, DOCTOR L. H. BAILEY; Cornell University, Ithaca, N. Y. "The Forthcoming situation in Agricultural Work."—For this address see SCIENCE **43**: 77–87. Jan. 21, 1916.

Report of the Secretary of Section M.—For this report see SCIENCE **43**: 356–358. March 10, 1916.

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THE SPECIAL WASHINGTON MEETING, JANUARY 3 AND 4, 1916

This meeting was held in connection with the Second Pan-American Scientific Congress. Opening session Monday evening, January 3, 1916. Address of Welcome by MR. JOHN BARRETT, Director General of the Bureau of American Republics and Secretary-General of the Second Pan-American Scientific Congress.—For this address see SCIENCE 43: 247–249. February 18, 1916.

Two sessions for the reading of papers were held on Tuesday, January 4th.—For abstracts of these papers see SCIENCE 43: 249–251. February 18, 1916.

EXECUTIVE SESSIONS FOR THE FISCAL YEAR 1915–16

COUNCIL MEETINGS

The Council met December 27, 28, 29, 30, 31, 1915, at Columbus.—For a report of these meetings see SCIENCE 43: 37–38. January 7, 1916.

Financial report of the Permanent Secretary for the period from November 1, 1915, to October 31, 1916.—See SCIENCE 45: 416. April 27, 1917.

Report of the Treasurer for the calendar year 1916, to December 20, 1916.—See SCIENCE 45: 145–146. February 9, 1917.

MEETINGS OF THE COMMITTEE ON POLICY

(a) New York City, November 15, 1915.—For a report of this meeting see SCIENCE 42: 760. November 26, 1915.

(b) Columbus, Ohio, December 26, 1915.

(c) Washington, D. C., April 17, 1916.—For a report of this meeting see SCIENCE 43: 637–638. May 5, 1916.

(d) New York City, September 30, 1916.—For a report of this meeting see SCIENCE 44: 526–527. October 13, 1916.

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PROCEEDINGS

1917

For the fiscal year 1916–17

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GENERAL OFFICERS FOR THE CALENDAR YEAR 1916

PRESIDENT

CHARLES RICHARD VAN HISE, deceased.

RETIRING PRESIDENT

WILLIAM WALLACE CAMPBELL; Lick Observatory, Mt. Hamilton, Cal.

VICE-PRESIDENTS AND RETIRING VICE-PRESIDENTS FOR THE SECTIONS

SECTION A. MATHEMATICS AND ASTRONOMY

Vice-President, LUTHER P. EISENHART; Princeton Univ., Princeton, N. J.
Retiring Vice-President, ARMIN O. LEUSCHNER; Univ. of California, Berkeley, Cal.

SECTION B. PHYSICS

Vice-President, HENRY A. BUMSTEAD; Yale Univ., New Haven, Conn.
Retiring Vice-President, E. PERCIVAL LEWIS; Univ. of California, Berkeley, Cal.

SECTION C. CHEMISTRY

Vice-President, JULIUS STIEGLITZ; Univ. of Chicago, Chicago, Ill.
Retiring Vice-President, WILLIAM MCPHERSON; Ohio State Univ., Columbus, Ohio.

SECTION D. ENGINEERING

Vice-President, HENRY M. HOWE; Bedford Hills, N. Y. (In place of Elmer L. Corthell, deceased.)
Retiring Vice-President, BION J. ARNOLD; 105 South La Salle St., Chicago, Ill.

SECTION E. GEOLOGY AND GEOGRAPHY

Vice-President, ROLLIN D. SALISBURY; Univ. of Chicago, Chicago, Ill.
Retiring Vice-President, CHARLES S. PROSSER, deceased.

SECTION F. ZOOLOGY

Vice-President, GEORGE H. PARKER; Harvard Univ., Cambridge, Mass.
Retiring Vice-President, VERNON L. KELLOGG; Stanford University, Cal.

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SECTION G. BOTANY

Vice-President, C. STUART GAGER; Brooklyn Botanic Garden, Brooklyn, N. Y. (In place of Thomas J. Burrill, deceased.)

Retiring Vice-President, WILLIAM A. SETCHELL; Univ. of California, Berkeley, Cal.

SECTION H. ANTHROPOLOGY AND PSYCHOLOGY

Vice-President, FREDERICK W. HODGE; Smithsonian Institution, Washington, D. C.

Retiring Vice-President, LILLIEN J. MARTIN; Stanford University, Cal.

SECTION I. SOCIAL AND ECONOMIC SCIENCE

Vice-President, LOUIS I. DUBLIN; Metropolitan Life Insurance Co., New York City.

Retiring Vice-President, GEORGE F. KUNZ; 601 Cathedral Parkway, New York City.

SECTION K. PHYSIOLOGY AND EXPERIMENTAL MEDICINE

Vice-President, EDWIN O. JORDAN; Univ. of Chicago, Chicago, Ill.

Retiring Vice-President, FREDERICK P. GAY; Univ. of California, Berkeley, Cal.

SECTION L. EDUCATION

Vice-President, LEONARD P. AYRES; Russell Sage Foundation, New York City.

Retiring Vice-President, ELLWOOD P. CUBBERLEY; Stanford University, Cal.

SECTION M. AGRICULTURE

Vice-President, WHITMAN H. JORDAN; New York Agric. Exp. Sta., Geneva, N. Y.

Retiring Vice-President, EUGENE DAVENPORT; Univ. of Illinois, Urbana, Ill.

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GENERAL SECRETARY

WILLIAM E. HENDERSON; Ohio State University, Columbus, Ohio.

TREASURER

R. S WOODWARD; Carnegie Institution of Washington, Washington, D. C.

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SECTION COMMITTEES FOR THE CALENDAR YEAR 1916

SECTION A. MATHEMATICS AND ASTRONOMY

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GEORGE A. MILLER, Preceding Secretary.
F. B. LITTELL, 1 year.
JOHN C. FIELDS, 2 years.
ARMIN O. LEUSCHNER, 3 years.
HENRY N. RUSSELL, 4 years.
HENRY L. REITZ, 5 years.

SECTION B. PHYSICS

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ALFRED D. COLE, Preceding Secretary.
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DAYTON C. MILLER, 2 years.
GEORGE W. STEWART, 3 years.
ROBERT R. TATNALL, 4 years.
W. S. FRANKLIN, 5 years.
R. A. MILLIKAN, President, American Physical Society, *ex-officio.*
ALFRED D. COLE, Secretary, American Physical Society, *ex-officio.*

SECTION C. CHEMISTRY

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CHARLES H. HERTY, Preceding Secretary.
LAUDER W. JONES, 1 year.
JULIUS STIEGLITZ, 2 years.
P. B. HAWK, 3 years.
EDWARD C. FRANKLIN, 4 years.
ARTHUR A. NOYES, 5 years.
CHARLES H. HERTY, President, American Chemical Society, *ex-officio.*
CHARLES L. PARSONS, Secretary, American Chemical Society, *ex-officio.*

SECTION D. ENGINEERING

HENRY M. HOWE, Vice-President for the Section, *Chairman.*
A. H. BLANCHARD, *Secretary.*

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G. W. BISSELL, Preceding Secretary.
W. W. CROSBY, 1 year.
WILLIAM BOWIE, 2 years.
R. H. FERNALD, 3 years.
C. S. HOWE, 4 years.
PREVOST HUBBARD, 5 years.

SECTION E. GEOLOGY AND GEOGRAPHY

ROLLIN D. SALISBURY, Vice-President for the Section, *Chairman.*
GEORGE F. KAY, *Secretary.*
CHARLES S. PROSSER, Preceding Vice-President.
F. P. GULLIVER, Preceding Secretary.
F. R. VAN HORN, 1 year.
C. H. GORDON, 2 years.
DAVID WHITE, 3 years.
W. H. EMMONS, 4 years.
C. P. BERKEY, 5 years.
J. M. CLARKE, President, Geological Society of America, *ex-officio.*
E. O. HOVEY, Secretary, Geological Society of America, *ex-officio.*
MARK JEFFERSON, President, Association of American Geographers, *ex-officio.*
ISAIH BOWMAN, Secretary, Association of American Geographers, *ex-officio.*

SECTION F. ZOOLOGY

GEORGE H. PARKER, Vice-President for the Section, *Chairman.*
HERBERT V. NEAL, *Secretary.*
VERNON L. KELLOGG, Preceding Vice-President.
M. A. BIGELOW, Preceding Secretary.
A. M. REESE, 1 year.
JACOB REIGHARD, 2 years.
HERBERT OSBORN, 3 years.
WILLIAM E. RITTER, 4 years.
CASWELL GRAVE, 5 years.

SECTION G. BOTANY

C. STUART GAGER, Vice-President for the Section, *Chairman.*
(In place of Thomas J. Burrill, deceased.)
ALBERT F. BLAKESLEE, *Secretary.*
WILLIAM A. SETCHELL, Preceding Vice-President.
W. J. V. OSTERHOUT, Preceding Secretary.
L. H. PAMMEL, 1 year.
A. D. SELBY, 2 years.
D. T. MACDOUGAL, 3 years.
C. STUART GAGER, 4 years.

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CHARLES E. ALLEN, 5 years.
R. A. HARPER, President, Botanical Society of America, *ex-officio.*
H. H. BARTLETT, Secretary, Botanical Society of America, *ex-officio.*
ERWIN F. SMITH, President, American Phytopathological Society, *ex-officio.*
C. L. SHEAR, Secretary, American Phytopathological Society, *ex-officio.*

SECTION H. ANTHROPOLOGY AND PSYCHOLOGY

FREDERICK W. HODGE, Vice-President for the Section, *Chairman.*
GEORGE G. MACCURDY, *Secretary.*
LILLIEN J. MARTIN, Preceding Vice-President.
P. E. GODDARD, 1 year.
R. S. WOODWORTH, 2 years.
LIGHTNER WITMER, 3 years.
FRANZ BOAS, 4 years.
ALFRED M. TOZZIER, 5 years.
ROBERT H. LOWIE, President, American Folk-Lore Society, *ex-officio.*
CHARLES PEABODY, Secretary, American Folk-Lore Society, *ex-officio.*
RAYMOND DODGE, President, American Psychological Association, *ex-officio.*
ROBERT M. OGDEN, Secretary, American Pshchological Association, *ex-officio.*
FREDERICK W. HODGE, President, American Anthropological Association, *ex-officio.*
GEORGE GRANT MACCURDY, Secretary, American Anthropological Association, *ex-officio.*

SECTION I. SOCIAL AND ECONOMIC SCIENCE

LOUIS I. DUBLIN, Vice-President for the Section, *Chairman.*
SEYMOUR C. LOOMIS, *Secretary.*
GEORGE F. KUNZ, Preceding Vice-President.
FRED C. CROXTON, Preceding Secretary.
E. E. RITTENHOUSE, 1 year.
J. PEASE NORTON, 2 years.
JUDSON G. WALL, 3 years.
JOHN F. CROWELL, 4 years.
JOHN B. CLARK, 5 years.

SECTION K. PHYSIOLOGY AND EXPERIMENTAL MEDICINE

EDWIN O. JORDAN, Vice-President for the Section, *Chairman.*
C.-E. A. WINSLOW, *Secretary.*
FREDERICK P. GAY, Preceding Vice-President.
C. R. HOOKER, Preceding Secretary.
OLIVER P. JENKINS, 1 year.
ALEXANDER C. ABBOTT, 2 years.
C.-E. A. WINSLOW, 3 years.
G. N. STEWART, 4 years.
A. J. GOLDFARB, 5 years.

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SECTION L. EDUCATION

LEONARD P. AYRES, Vice-President for the Section, *Chairman.*
STUART A. COURTIS, *Secretary.*
ELLWOOD P. CUBBERLEY, Preceding Vice-President (fiscal year 1916).
PAUL H. HANUS, Preceding Vice-President (fiscal year 1915).
A. ROSS HILL, 1 year.
WALTER F. DEARBORN, 2 years.
EDWARD L. THORNDIKE, 3 years.
P. P. CLAXTON, 4 years.
PAUL H. HANUS, 5 years.

SECTION M. AGRICULTURE

WHITMAN H. JORDAN, Vice-President for the Section, *Chairman.*
EDWIN W. ALLEN, *Secretary.*
EUGENE DAVENPORT, Preceding Vice-President.
WHITMAN H. JORDAN, 1 year.
H. A. MORGAN, 2 years.
EDWARD H. JENKINS, 3 years.
KENYON L. BUTTERFIELD, 4 years.
ALFRED VIVIAN, 5 years.

MEMBERS OF THE COUNCIL FOR THE CALENDAR YEAR 1916

THE PRESIDENT

CHARLES RICHARD VAN HISE, deceased.

THE PAST PRESIDENTS

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T. C. MENDENHALL; Ravenna, Ohio.
GEORGE L. GOODALE; Cambridge, Mass.
EDWARD W. MORLEY; West Hartford, Conn.
G. K. GILBERT; Washington, D. C.
R. S. WOODWARD; Washington, D. C.
IRA REMSEN; Baltimore, Md.
W. G. FARLOW; deceased, Cambridge, Mass.
WILLIAM H. WELCH; Baltimore, Md.
E. L. NICHOLS; Ithaca, N. Y.
T. C. CHAMBERLIN; Chicago, Ill.
DAVID STARR JORDAN; Stanford University, Cal.
A. A. MICHELSON; Chicago, Ill.
E. C. PICKERING; deceased, Cambridge, Mass.

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EDMUND V. WILSON; New York City.
CHARLES W. ELIOT; Cambridge, Mass.
WILLIAM WALLACE CAMPBELL; Mount Hamilton, Cal.

THE VICE-PRESIDENTS FOR 1914

HENRY SEELY WHITE;Poughkeepsie, N. Y.
ANTHONY ZELENY; Minneapolis, Minn.
EDGAR F. SMITH; Philadelphia, Pa.
FREDERICK W. TAYLOR; deceased.
U. S. GRANT; Evanston, Ill.
FRANK R. LILLIE; Chicago, Ill.
GEORGE P. CLINTON; New Haven, Conn.
CLARK WISSLER; New York City.
E. E. RITTENHOUSE; New York City.
RICHARD M. PEARCE; Philadelphia, Pa.
PAUL H. HANUS; Cambridge, Mass.
L. H. BAILEY; Ithaca, N. Y.

THE VICE-PRESIDENTS FOR 1915

ARMIN O. LEUSCHNER; Berkeley, Cal.
E. PERCIVAL LEWIS; Berkeley, Cal.
WILLIAM MCPHERSON; Columbus, Ohio.
BION J. ARNOLD; Chicago, Ill.
C. S. PROSSER, deceased.
VERNON L. KELLOGG; Stanford University, Cal.
WILLIAM A. SETCHELL; Berkeley, Cal.
LILLIEN J. MARTIN; Stanford University, Cal.
GEORGE F. KUNZ; New York City.
FREDERICK P. GAY; Berkeley, Cal.
ELLWOOD P. CUBBERLEY; Stanford University, Cal.
EUGENE DAVENPORT; Urbana, Ill.

THE VICE-PRESIDENTS FOR 1916

LUTHER P. EISENHART; Princeton, N. J.
HENRY A. BUMSTEAD; New Haven, Conn.
JULIUS STIEGLITZ; Chicago, Ill.
HENRY M. HOWE; New York City (In place of Elmer L. Corthell, deceased).
ROLLIN D. SALISBURY; Chicago, Ill.
GEORGE H. PARKER; Cambridge, Mass.
C. STUART GAGER; Brooklyn (In place of Thomas J. Burrill, deceased).
FREDERICK W. HODGE; Washington, D. C.
LOUIS I. DUBLIN; New York City.
EDWIN O. JORDAN; Chicago, Ill.
LEONARD P. AYRES; New York City.
WHITMAN H. JORDAN; Geneva, N. Y.

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THE PERMANENT SECRETARY FOR 1915–19

L. O. HOWARD; Washington, D. C.

THE GENERAL SECRETARY FOR 1916

WILLIAM E. HENDERSON; Columbus, Ohio.

THE SECRETARY OF THE COUNCIL FOR 1916

C. STUART GAGER; Brooklyn, N. Y.

THE TREASURER FOR 1915–19

R. S. WOODWARD; Washington, D. C.

THE SECRETARIES OF THE SECTIONS FOR 1916

FOREST R. MOULTON; Chicago, Ill.
WILLIAM J. HUMPHREYS; Washington, D. C.
JOHN JOHNSTON; Washington, D. C.
ARTHUR H. BLANCHARD; New York City.
GEORGE F. KAY; Iowa City, Iowa.
HERBERT V. NEAL; Tufts College, Mass.
A. F. BLAKESLEE; Cold Spring Harbor, Long Island, N. Y.
GEORGE G. MACCURDY; New Haven, Conn.
SEYMOUR C. LOOMIS; New Haven, Conn.
CHARLES-E. A. WINSLOW; New Haven, Conn.
STUART A. COURTIS; Detroit, Mich.
EDWIN W. ALLEN; Washington, D. C.

MEMBERS FROM THE ASSOCIATION AT LARGE

H. W. REDDICK, New York City.
ARTHUR L. FOLEY; Bloomington, Ind.
W. LLOYD EVANS; Columbus, Ohio.
WILLIAM T. MAGRUDER; Columbus, Ohio.
J. A. BOWNOCKER; Columbus, Ohio.
L. B. WALTON; Gambier, Ohio.
AVEN NELSON; Laramie, Wyo.
LIGHTNER WITMER; Philadelphia, Pa.
W. R. LAZENBY; Columbus, Ohio.
H. H. DONALDSON; Philadelphia, Pa.
EDWARD F. BUCHNER; Baltimore, Md.
FREDERICK B. MUMFORD; Columba, S. C.

MEMBERS ELECTED BY THE COUNCIL

H. L. FAIRCHILD (for one year).
FRANZ BOAS (for one year).

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IRVING FISHER (for one year).
STEWART PATON (for two years).
HENRY B. WARD (for two years).
HENRY C. COWLES (for two years).
J. McK. CATTELL (for three years).
J. M. COULTER (for three years).
N. L. BRITTON (for three years).

REPRESENTATIVES OF THE AFFILIATED SOCIETIES

From the American Chemical Society

CHARLES H. HERTY. CHARLES L. PARSONS.

From the Geological Society of America

JOHN M. CLARKE. CHARLES P. BERKEY.

From the Botanical Society of America

JOHN M. COULTER. GEORGE T. MOORE.

From the American Microscopical Society

T. W. GALLOWAY. ARTHUR H. ELLIOTT.

From the American Psychological Association

R. S. WOODWORTH

From the American Society of Naturalists

FRANK R. LILLIE. BRADLEY M. DAVIS.

From the American Association of Economic Entomologists

C. P. GILLETTE. GLENN W. HERRICK.

From the American Anthropological Association

WILLIAM H. HOLMES. FRANZ BOAS.

From the American Astronomical Society

GEORGE C. COMSTOCK. FRANK SCHLESINGER.

From the American Physical Society

ERNEST MERRITT. W. F. MAGIE.

From the Society of American Bacteriologists

FRANK L. STEVENS.

From the American Association of Anatomists

SIMON H. GAGE.

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From the Society for Horticultural Science

L. C. CORBETT.

From the Entomological Society of America

VERNON L. KELLOGG. E. P. FELT.

From the American Society of Mechanical Engineers

D. S. JACOBUS. WILLIAM B. JACKSON.

From the American Institute of Electrical Engineers

W. S. FRANKLIN. G. W. PIERCE.

From the American Society of Civil Engineers

CHARLES WARREN HUNT. GEORGE GIBBS.

From the American Institute of Mining Engineers

WALDEMAR LINDGREN. J. B. TYRRELL.

From the American Medical Association

GEORGE H. SIMMONS. GEORGE M. KOBER.

From the American Federation of Teachers of the Mathematical and the Natural Sciences

HARRY W. TYLER. OTIS W. CALDWELL.

From the Association of American Geographers

MARK JEFFERSON. ISAIAH BOWMAN.

From the American Society of Zoologists

C. P. SINGERFOOS.

From the American Phytopathological Society

ERWIN F. SMITH. C. L. SHEAR.

From the American Society of Foresters

BERNARD E. FERNOW.

From the American Genetic Association

A. F. BLAKESLEE. E. N. WENTWORTH.

From the Eugenics Research Association

C. B. DAVENPORT.

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MEMBERS OF THE GENERAL COMMITTEE FOR THE CALENDAR YEAR 1916

THE MEMBERS OF THE COUNCIL

REPRESENTATIVES OF THE SECTIONS

Section A, Mathematics and Astronomy. ALEXANDER ZIWET; Ann Arbor, Mich.

Section B, Physics. (Not shown in records.)

Section C, Chemistry. MARSTON T. BOGART; New York City.

Section D, Engineering. FRANK C. WAGNER; Terre Haute, Ind.

Section E, Geology and Geography. EDGAR R. CUMINGS; Bloomington, Ind.

Section F, Zoology. WILLIAM A. LOCY; Evanston, Ill.

Section G, Botany. L. H. PAMMEL; Ames, Iowa.

Section H, Anthropology and Psychology. PLINY E. GODDARD; New York City.

Section I, Social and Economic Science. W. H. HALE; Brooklyn, N. Y.

Section K, Physiology and Experimental Medicine. FREDERICK S. LEE; New York City.

Section L, Education. ALBERT SHIELS; Los Angeles, Cal.

Section M, Agriculture. A. C. TRUE; Washington, D. C.

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THE SIXTY-NINTH MEETING

(FOURTH NEW YORK MEETING)

The Annual Meeting for the Fiscal Year 1916–17; New York City; December 26 to 29, 1916

LOCAL COMMITTEES FOR THE FOURTH NEW YORK MEETING

The Executive Committee

Henry Fairfield Osborn, *Chairman.*
J. McKeen Cattell, *Secretary.*

Charles Baskerville.
Nathaniel L. Britton.
Simon Flexner.
Michael I. Pupin.
John J. Stevenson.
Edmund B. Wilson.

The Columbia University Committee on Arrangements

Henry E. Crampton, *Chairman.*
Frank D. Fackenthal.
Henry L. Norris.
George B. Pegram.
Harry L. Hollingworth.

The Honorary Reception Committee of the City of New York

John Purroy Mitchel.
Elmer Elsworth Brown.
Nicholas Murray Butler.
Andrew Carnegie.
Joseph H. Choate.
R. Fulton Cutting.
Cleveland H. Dodge.
James B. Ford.
Henry C. Frick.
A. Barton Hepburn.
George G. Heye.
Archer M. Huntington.
Walter B. James.
V. Everit Macy.
Emerson McMillin.
Sidney Edward Mezes.
Mrs. Henry Fairfield Osborn.
M. I. Pupin.
Theodore Roosevelt.
Mrs. Willard D. Straight.
Mrs. Frederick Ferris Thompson.
Frederic C. Walcott.

REPORTS OF THE NEW YORK MEETING

Published Reports

See Science 45: 22–24. January 5, 1917.

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GENERAL SESSIONS AT NEW YORK

(a) Address of the Retiring President of the Association, DR. WILLIAM WALLACE CAMPBELL; Lick Observatory, Mt. Hamilton, Cal. "The Nebulae." Tuesday evening, December 26, 1916.—For this address see SCIENCE **45**: 513–546. *Fig. 37*. May 25, 1917.

(b) Public lecture by DR. SIMON FLEXNER, Director of the Scientific Laboratories of the Rockefeller Institute for Medical Research; New York City. "Infantile Paralysis and the Public Health." Thursday afternoon, December 28, 1916.

(c) Public lecture by PROFESSOR A. A. NOYES; Massachusetts Institute of Technology, Cambridge, Mass. "Nitrogen and Preparedness." Tuesday evening, December 28, 1916.

SESSIONS OF THE SECTIONS AT NEW YORK

Section A. Mathematics and Astronomy

Address of the Retiring Vice-President, ARMIN O. LEUSCHNER; University of California, Berkeley, Cal. "The Derivation of Orbits; Theory and Practise." —For this address see SCIENCE **45**: 571–584. June 8, 1917.

Section B. Physics

Address of the Retiring Vice-President, E. PERCIVAL LEWIS; University of California, Berkeley, Cal. "Recent Progress in Spectroscopy."—For this address see SCIENCE **44**: 899–912. December 29, 1916.

Report of the Secretary of Section B.—For this report see SCIENCE **45**: 320. March 30, 1917.

Section C. Chemistry

Address of the Retiring Vice-President, WILLIAM MCPHERSON; Ohio State University, Columbus, Ohio. "Asymmetric Syntheses and their Bearing upon the Doctrine of Vitalism."—For this address see SCIENCE **45**: 49–57, 76–81. January 19, 26, 1917.

Report of the Secretary of Section C.—For this report see SCIENCE **45**: 48. January 12, 1917.

Section D. Engineering

No Retiring Vice-Presidential address given.—Retiring Vice-President, BION J. ARNOLD; 105 South La Salle St., Chicago, Ill.

Report of the Secretary of Section D.—For this report see SCIENCE **45**: 389–392, 412–415. April 20, 27, 1917.

Section E. Geology and Geography

No retiring Vice-Presidential address given. Retiring Vice-President, CHARLES S. PROSSER, deceased.

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Section F. Zoology

No Retiring Vice-Presidential address given.—Retiring Vice-President, VERNON L. KELLOGG; Stanford University, Cal.

Section G. Botany

Address of the Retiring Vice-President, WILLIAM A. SETCHELL; University of California, Berkeley, Cal. "Geographical Distribution of the Marine Algae."—For this address see SCIENCE **45**: 197–204. March 2, 1917.

Section H. Anthropology and Psychology

Address of the Retiring Vice-President, LILLIEN J. MARTIN; Stanford Univerversity, Cal. "Personality as Revealed by the Content of Images."—For this address see SCIENCE **45**: 393–399. April 27, 1917.

Section I. Social and Economic Science

Address of the Retiring Vice-President, GEORGE F. KUNZ; 601 Cathedral Parkway, New York City. "Scientific Efficiency and Industrial Museums our Safeguard in Peace and War."—For this address see SCIENCE **45**: 297–301. March 30, 1917.

Section K. Physiology and Experimental Medicine

Address of the Retiring Vice-President, FREDERICK P. GAY; University of California, Berkeley, Cal. "Specialization and Research in the Medical Sciences."—For this address see SCIENCE **45**: 25–33. January 12, 1917.

Section L. Education

Address of the Retiring Vice-President, ELLWOOD P. CUBBERLEY, Stanford University, Cal. "Obstacles to Educational Progress."—For this address see SCIENCE **45**: 369–376. April 20, 1917.

Section M. Agriculture

Address of the Retiring Vice-President, EUGENE DAVENPORT; University of Illinois, Urbana, Ill. "The Outlook for Agricultural Science."—For this address see SCIENCE **45**: 149–160. February 16, 1917.

Report of the Secretary of Section M.—For this report see SCIENCE **45**: 222–224. March 2, 1917.

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EXECUTIVE SESSIONS FOR THE FISCAL YEAR 1916–17

COUNCIL MEETINGS

The Council met December 26, 27, 28, 29, 1916, at New York City.—For a report of these meetings, see SCIENCE **45**: 5, 23–24. January 5, 1917.

Financial report of the Permanent Secretary for the period from November 1, 1916, to October 31, 1917.—See SCIENCE **47**: 200. February 22, 1918.

Report of the Treasurer for the calendar year 1917 (from December 20, 1916 to December 15, 1917.)—See SCIENCE **47**: 199–200. February 22, 1918.

The Council held a meeting in Washington, D. C., on April 17, 1917.—For a report of this meeting see SCIENCE **45**: 415–416. April 27, 1917.

MEETINGS OF THE COMMITTEE ON POLICY

(a) New York City, December 26, 27, 28, 29, 1916.—For a report of these meetings see SCIENCE **45**: 5, 23–24. January 5, 1917.

(b) Washington, D. C., April 16, 1917.

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PROCEEDINGS

1918

For the fiscal year 1917–18

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GENERAL OFFICERS FOR THE CALENDAR YEAR 1917

PRESIDENT

THEODORE W. RICHARDS; Harvard University, Cambridge, Mass.

RETIRING PRESIDENT

CHARLES RICHARD VAN HISE, deceased.

VICE-PRESIDENTS AND RETIRING VICE-PRESIDENTS FOR THE SECTIONS

SECTION A. MATHEMATICS AND ASTRONOMY

Vice-President, HENRY NORRIS RUSSELL; Princeton Univ., Princeton, N. J.
Retiring Vice-President, LUTHER P. EISENHART; Princeton Univ., Princeton, N. J.

SECTION B. PHYSICS

Vice-President, WILLIAM J. HUMPHREYS; U. S. Weather Bureau, Washington, D. C.
Retiring Vice-President, HENRY A. BUMSTEAD, deceased.

SECTION C. CHEMISTRY

Vice-President, WILLIAM ALBERT NOYES; Univ. of Illinois, Urbana, Ill.
Retiring Vice-President, JULIUS STIEGLITZ; Univ. of Chicago, Chicago, Ill.

SECTION D. ENGINEERING

Vice-President, HENRY STURGIS DRINKER; Lehigh Univ., South Bethlehem, Pa.
Retiring Vice-President, HENRY M. HOWE; Bedford Hills, N. Y.

SECTION E. GEOLOGY AND GEOGRAPHY

Vice-President, GEORGE HENRY PERKINS; Univ. of Vermont, Burlington, Vt.
Retiring Vice-President, ROLLIN D. SALISBURY; Univ. of Chicago, Chicago, Ill.

SECTION F. ZOOLOGY

Vice-President, HERBERT OSBORN; Ohio State Univ., Columbus, Ohio.
Retiring Vice-President, GEORGE H. PARKER; Harvard Univ., Cambridge, Mass.

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SECTION G. BOTANY

Vice-President, BURTON E. LIVINGSTON; Johns Hopkins Univ., Baltimore, Md.

Retiring Vice-President, C. STUART GAGER; Brooklyn Botanic Garden, Brooklyn, N. Y.

SECTION H. ANTHROPOLOGY AND PSYCHOLOGY

Vice-President, EDWARD L. THORNDIKE; Columbia Univ., New York City.

Retiring Vice-President, FREDERICK W. HODGE; Smithsonian Institution, Washington, D. C.

SECTION I. SOCIAL AND ECONOMIC SCIENCE.

Vice-President, GEORGE WALBRIDGE PERKINS; 71 Broadway, New York City.

Retiring Vice-President, LOUIS I. DUBLIN; Metropolitan Life Insurance Co., New York City.

SECTION K. PHYSIOLOGY AND EXPERIMENTAL MEDICINE

Vice-President, CHARLES-EDWARD AMORY WINSLOW; Yale Univ., New Haven, Conn.

Retiring Vice-President, EDWIN O. JORDAN; Univ. of Chicago, Chicago, Ill.

SECTION L. EDUCATION

Vice-President, EDWARD FRANKLIN BUCHNER; Johns Hopkins Univ., Baltimore, Md.

Retiring Vice-President, LEONARD P. AYRES; Russell Sage Foundation, New York City.

SECTION M. AGRICULTURE

Vice-President, HENRY JACKSON WATER; Kansas State Agric. Coll., Manhattan, Kan.

Retiring Vice-President, WHITMAN H. JORDAN; New York Agric. Exp. Sta., Geneva, N. Y.

PERMANENT SECRETARY

L. O. HOWARD; Smithsonian Institution, Washington, D. C.

GENERAL SECRETARY

JAMES MCKEEN CATTELL; Garrison-on-Hudson, N. Y.

TREASURER

R. S. WOODWARD; Carnegie Institution of Washington, Washington, D. C.

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SECTION COMMITTEES FOR THE CALENDAR YEAR 1917

SECTION A. MATHEMATICS AND ASTRONOMY

HENRY N. RUSSELL, Vice-President for the Section, *Chairman.*
F. R. MOULTON, *Secretary.*
LUTHER P. EISENHART, Retiring Vice-President for the Section.
G. A. MILLER, *Preceding Secretary.*
JOHN C. FIELDS, 1 year.
A. O. LEUSCHNER, 2 years.
H. N. RUSSELL, 3 years.
H. L. RIETZ, 4 years.
J. M. PAGE, 5 years.

SECTION B. PHYSICS

WILLIAM J. HUMPHREYS, Retiring Vice-President for the Section, *Chairman.*
GEORGE W. STEWART, *Secretary.*
HENRY A. BUMSTEAD, Retiring Vice-President for the Section.
W. J. HUMPHREYS, *Preceding Secretary.*
DAYTON C. MILLER, 1 year.
GEORGE W. STEWART, 2 years.
ROBERT R. TATNALL, 3 years.
W. S. FRANKLIN, 4 years.
C. W. WAGGONER, 5 years.
R. A. MILLIKAN, President American Physical Society, *ex-officio.*
ALFRED D. COLE, Secretary, American Physical Society, *ex-officio.*

SECTION C. CHEMISTRY

WILLIAM A. NOYES, Vice-President for the Section, *Chairman.*
GEORGE D. BEAL, *Secretary.* (In place of James Kendall.)
JULIUS STIEGLITZ, Retiring Vice-President for the Section.
JOHN JOHNSTON, *Preceding Secretary.*
JULIUS STIEGLITZ, 1 year.
PHILIP B. HAWK, 2 years.
E. C. FRANKLIN, 3 years.
ARTHUR A. NOYES, 4 years.
IRVING LANGMUIR, 5 years.
JULIUS STIEGLITZ, President, American Chemical Society, *ex-officio.*
CHARLES L. PARSONS, *Secretary*, American Chemical Society, *ex-officio.*

SECTION D. ENGINEERING

HENRY S. DRINKER, Vice-President for the Section, *Chairman.*
ARTHUR H. BLANCHARD, *Secretary.*
HENRY M. HOWE, Retiring Vice-President for the Section

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G. W. BISSELL, *Preceding Secretary.*
WILLIAM BOWIE, 1 year.
....., 2 years.
CHARLES S. HOWE, 3 years.
PREVOST HUBBARD, 4 years.
ALFRED E. BURTON, 5 years.

SECTION E. GEOLOGY AND GEOGRAPHY

GEORGE HENRY PERKINS, Vice-President for the Section, *Chairman.*
R. T. CHAMBERLIN, *Secretary.*
ROLLIN D. SALISBURY, Retiring Vice-President for the Section.
GEORGE F. KAY, *Preceding Secretary.*
C. H. GORDON, 1 year.
DAVID WHITE, 2 years.
W. H. EMMONS, 3 years.
C. P. BERKEY, 4 years.
H. L. FAIRCHILD, 5 years.
FRANK D. ADAMS, President, Geological Society of America, *ex-officio.*
EDMUND O. HOVEY, Secretary, Geological Society of America, *ex-officio.*
ROBERT DEC. WARD, President, Association of American Geographers, *ex-officio.*
RICHARD E. DODGE, Secretary, Association of American Geographers, *ex-officio.*

SECTION F. ZOOLOGY

HERBERT OSBORN, Vice-President for the Section, *Chairman.*
GEORGE H. PARKER, Retiring Vice-President for the Section.
HERBERT V. NEAL, *Secretary.*
M. A. BIGELOW, *Preceding Secretary.*
JACOB REIGHARD, 1 year.
HERBERT OSBORN, 2 years.
WILLIAM E. RITTER, 3 years.
CASWELL GRAVE, 4 years.
A. M. REESE, 5 years.

SECTION G. BOTANY

BURTON E. LIVINGSTON, Vice-President for the Section, *Chairman.*
ALBERT F. BLAKESLEE, *Secretary.*
C. STUART GAGER, Retiring Vice-President for the Section.
W. J. V. OSTERHOUT, *Preceding Secretary.*
A. D. SELBY, 1 year.
D. T. MACDOUGAL, 2 years.
C. STUART GAGER, 3 years.
CHARLES E. ALLEN, 4 years.
G. P. CLINTON, 5 years.

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F. C. NEWCOMBE, President, Botanical Society of America, *ex-officio.*
H. H. BARTLETT, Secretary, Botanical Society of America. *ex-officio.*
MEL T. COOK, President, American Phytopathological Society, *ex-officio.*
C. L. SHEAR, Secretary, American Phytopathological Society, *ex-officio.*

SECTION H. ANTHROPOLOGY AND PSYCHOLOGY

EDWARD L. THORNDIKE, Vice-President for the Section, *Chairman.*
EDWARD K. STRONG, JR., *Secretary.*
FREDERICK W. HODGE, Retiring Vice-President for the Section.
GEORGE G. MACCURDY, *Preceding Secretary.*
R. S. WOODWORTH, 1 year.
LIGHTNER WITMER, 2 years.
FRANZ BOAS, 3 years.
ALFRED M. TOZZER, 4 years.
PLINY E. GODDARD, 5 years.
ROBERT H. LOWIE, President, American Folk-Lore Society, *ex-officio.*
CHARLES PEABODY, Secretary, American Folk-Lore Society, *ex-officio.*
ROBERT M. YERKES, President, American Psychological Association, *ex-officio.*
H. S. LANGFIELD, Secretary, American Psychological Association, *ex-officio.*
A. L. KROEBER, President, American Anthropological Association, *ex-officio.*
ALFRED M. TOZZER, Secretary, American Anthropological Association, *ex-officio.*

SECTION I. SOCIAL AND ECONOMIC SCIENCE

GEORGE WALBRIDGE PERKINS, Vice-President for the Section, *Chairman.*
SEYMOUR C. LOOMIS, *Secretary.*
LOUIS I. DUBLIN, Retiring Vice-President for the Section.
FRED C. CROXTON, *Preceding Secretary.*
J. PEASE NORTON, 1 year.
JUDSON G. WALL, 2 years.
JOHN F. CROWELL, 3 years.
GEORGE F. KUNZ, 4 years.
E. E. RITTENHOUSE, 5 years.

SECTION K. PHYSIOLOGY AND EXPERIMENTAL MEDICINE

C.-E. A. WINSLOW, Vice-President for the Section, *Chairman.*
A. J. GOLDFARB, *Secretary.*
EDWIN O. JORDAN, Retiring Vice-President for the Section.
C.-E. A. WINSLOW, *Preceding Secretary.*
ALEXANDER C. ABBOTT, 1 year.
C.-E. A. WINSLOW, 2 years.
GEORGE N. STEWART, 3 years.
A. J. GOLDFARB, 4 years.
JOSEPH LEIDY, 5 years.

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SECTION L. EDUCATION

EDWARD F. BUCHNER, Vice-President for the Section, *Chairman.*
STUART A. CURTIS, *Secretary.*
LEONARD P. AYRES, Retiring Vice-President for the Section.
C. RIBORG MANN, *Preceding Secretary.*
WALTER F. DEARBORN, 1 year.
E. L. THORNDIKE, 2 years.
P. O. CLAXTON, 3 years.
PAUL H. HANUS, 4 years.
LEONARD P. AYRES, 5 years.

SECTION M. AGRICULTURE

HENRY J. WATERS, Vice-President for the Section, *Chairman.*
EDWIN W. ALLEN, *Secretary.*
WHITMAN H. JORDAN, Retiring Vice-President for the Section.
H. A. MORGAN, 1 year.
EDWARD H. JENKINS, 2 years.
KENYON L. BUTTERFIELD, 3 years.
ALFRED VIVIAN, 4 years.
ALBERT F. WOODS, 5 years.

MEMBERS OF THE COUNCIL FOR THE CALENDAR YEAR 1917

THE PRESIDENT

THEODORE W. RICHARDS; Harvard University, Cambridge, Mass.

THE PAST PRESIDENTS

EDWARD S. MORSE, Salem, Mass.
T. C. MENDENHALL, Ravenna, Ohio.
GEORGE L. GOODALE, Cambridge, Mass.
EDWARD W. MORLEY, West Hartford, Conn.
G. K. GILBERT, Washington, D. C.
R. S. WOODWARD, Washington, D. C.
IRA REMSEN, Baltimore, Md.
W. G. FARLOW, deceased.
WILLIAM H. WELCH, Baltimore, Md.
E. L. NICHOLS, Ithaca, N. Y.
T. C. CHAMBERLIN, Chicago, Ill.
DAVID STARR JORDAN, Stanford University, Cal.
A. A. MICHELSON, Chicago, Ill.
E. C. PICKERING, deceased.

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EDMUND B. WILSON, New York City.
CHARLES W. ELIOT, Cambridge, Mass.
WILLIAM WALLACE CAMPBELL, Mount Hamilton, Cal.
CHARLES R. VAN HISE, deceased.

THE VICE-PRESIDENTS FOR 1915

ARMIN O. LEUSCHER, Berkeley, Cal.
E. PERCIVAL LEWIS, Berkeley, Cal.
WILLIAM MCPHERSON, Columbus, O.
BION J. ARNOLD, Chicago, Ill.
C. S. PROSSER, deceased, Columbus, O.
VERNON L. KELLOGG, Stanford University, Cal.
WILLIAM A. SETCHELL, Berkeley, Cal.
LILLIEN J. MARTIN, Stanford University, Cal.
GEORGE F. KUNZ, New York City.
FREDERICK P. GAY, Berkeley, Cal.
ELLWOOD P. CUBBERLEY, Stanford University, Cal.
EUGENE DAVENPORT, Urbana, Ill.

THE VICE-PRESIDENTS FOR 1916

LUTHER C. EISENHART, Princeton, N. J.
HENRY A. BUMSTEAD, New Haven, Conn.
JULIUS STIEGLITZ, Chicago, Ill.
HENRY M. HOWE, New York City (In place of Elmer L. Corthell, deceased.)
ROLLIN D. SALISBURY, Chicago, Ill.
GEORGE H. PARKER, Cambridge, Mass.
C. STUART GAGER, Brooklyn, N. Y. (In place of Thomas J. Burrill, deceased.)
FREDERICK W. HODGE, Washington, D. C.
LOUIS I. DUBLIN, New York City.
EDWIN O. JORDAN, Chicago, Ill.
LEONARD P. AYRES, New York City.
WHITMAN H. JORDAN, Geneva, N. Y.

THE VICE-PRESIDENTS FOR 1917

H. N. RUSSELL, Princeton, N. J.
WILLIAM J. HUMPHREYS, Washington, D. C.
WILLIAM ALBERT NOYES, Urbana, Ill.
HENRY STURGIS DRINKER, South Bethlehem, Pa.
GEORGE HENRY PERKINS, Burlington, Vt.
HERBERT OSBORN, Columbus, O.
BURTON E. LIVINGSTON, Baltimore, Md.
E. L. THORNDIKE, New York City.
GEORGE WALBRIDGE PERKINS, New York City.

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CHARLES-EDWARD ARMORY WINSLOW, New Haven, Conn.
EDWARD FRANKLIN BUCHNER, Baltimore, Md.
HENRY JACKSON WATERS, Manhattan, Kan.

THE PERMANENT SECRETARY FOR 1915–19

L. O. HOWARD, Washington, D. C.

THE GENERAL SECRETARY FOR 1917

JAMES MCKEEN CATTELL, New York City.

THE SECRETARY OF THE COUNCIL FOR 1917

WALTER VAN DYKE BINGHAM, Pittsburgh, Pa.

THE TREASURER FOR 1915–19

R. S. WOODWARD, Washington, D. C.

THE SECRETARIES OF THE SECTIONS FOR 1917

FOREST R. MOULTON, Chicago, Ill.
GEORGE WALTER STEWART, Iowa City, Ia.
GEORGE D. BEAL, Urbana, Ill. (In place of James Kendall.)
ARTHUR H. BLANCHARD, New York City.
ROLLIN T. CHAMBERLIN, Chicago, Ill.
HERBERT V. NEAL, Tufts College, Mass.
ALBERT F. BLAKESLEE, Cold Spring Harbor, Long Island, N. Y.
EDWARD K. STRONG, JR., Nashville, Tenn.
SEYMOUR C LOOMIS, New Haven, Conn.
A. J. GOLDFARB, New York City.
STUART A. COURTIS, Detroit, Mich.
EDWIN W. ALLEN, Washington, D. C.

MEMBERS FROM THE ASSOCIATION AT LARGE

G. A. MILLER, Urbana, Ill.
P. G. NUTTING, Rochester, N. Y.
M. A. ROSANOFF, Pittsburgh, Pa.
F. L. BISHOP, Pittsburgh, Pa.
W. H. HOBBS, Ann Arbor, Mich.
L. B. WALTON, Gambier, Ohio.
H. M. RICHARDS, New York City.
B. LAUFER, Chicago, Ill.
R. M. PEARCE, Philadelphia, Pa.
B. T. BALDWIN, Swarthmore, Pa.
R. A. PEARSON, Ames, Iowa.

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MEMBERS ELECTED BY THE COUNCIL

STEWART PATON (for one year).
HENRY B. WARD (for one year).
HENRY C. COWLES (for one year).
J. MCK. CATTELL (for two years).
J. M. COULTER (for two years).
N. L. BRITTON (for two years).
H. L. FAIRCHILD (for three years).
FRANZ BOAS (for three years).
IRVING FISHER (for three years).

REPRESENTATIVES OF THE AFFILIATED SOCIETIES

From the American Chemical Society

JULIUS STIEGLITZ. CHARLES L. PARSONS.

From the Geological Society of America

FRANK D. ADAMS. CHARLES P. BERKEY.

From the Botanical Society of America

R. A. HARPER. GEORGE T. MOORE.

From the American Microscopical Society

T. W. GALLOWAY. L. E. GRIFFIN.

From the American Psychological Association

G. C. BASSETT.

From the American Society of Naturalists

C. B. DAVENPORT. BRADLEY M. DAVIS.

From the American Association of Economic Entomologists

C. P. GILLETTE. H. A. GOSSARD.

From the American Anthropological Association

WILLIAM H. HOLMES. FRANZ BOAS.

From the American Astronomical Society

GEORGE C. COMSTOCK. FRANK SCHLESINGER.

From the American Physical Society

ERNEST MERRITT. W. F. MAGIE.

From the Society of American Bacteriologists

PHILIP B. HADLEY.

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From the American Association of Anatomists

SIMON H. GAGE.

From the Society of Horticultural Science

L. C. CORBETT.

From the Entomological Society of America

LAWRENCE BRUNER. E. P. FELT.

From the American Society of Mechanical Engineers

D. S. JACOBUS. WILLIAM B. JACKSON.

From the American Institute of Electrical Engineers

W. S. FRANKLIN. G. W. PIERCE.

From the American Society of Civil Engineers

CHARLES WARREN HUNT. GEORGE GIBBS.

From the American Institute of Mining Engineers

WALDEMAR LINDGREN. J. B. TYRRELL.

From the American Medical Association

GEORGE H. SIMMONS. GEORGE M. KOBER.

From the American Federation of Teachers of the Mathematical and the Natural Sciences

HARRY W. TYLER. WILLIAM A. HEDRICK.

From the Association of American Geographers

ROBERT DE C. WARD. RICHARD ELWOOD DODGE.

From the American Society of Zoologists

C. P. SIGERFOOS.

From the American Phytopathological Society

MEL. T. COOK. C. L. SHEAR.

From the Society of American Foresters

BERNARD E. FERNOW.

From the American Genetic Association

A. F. BLAKESLEE. E. N. WENTWORTH.

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From the Eugenic Research Association

C. B. DAVENPORT.

From the Illuminating Engineering Society

E. B. ROSA. C. H. SHARP.

From the Ecological Society of America

V. E. SHELFORD. W. M. WHEELER.

From the Society of College Teachers of Education

LOTUS D. COFFMAN. GUY M. WILSON.

From the National Society for the Study of Education

LOTUS D. COFFMAN. GUY M. WHIPPLE.

MEMBERS OF THE GENERAL COMMITTEE FOR THE CALENDAR YEAR 1917

THE MEMBERS OF THE COUNCIL

REPRESENTATIVES OF THE SECTIONS

Section A, Mathematics and Astronomy. FRANK SCHLESINGER; Allegheny, Pa.
Section B, Physics. GORDON F. HULL; Hanover, N. H.
Section C, Chemistry. R. F. BACON; Pittsburgh, Pa.
Section D, Engineering. DANIEL D. JACKSON; New York City.
Section E, Geology and Geography. GEORGE F. KUNZ; New York City.
Section F, Zoology. EUGENE W. GUDGER; Greensboro, N. C.
Section G, Botany. JOSEPH C. ARTHUR; La Fayette, Ind.
Section H, Anthropology and Psychology. ROBERT M. YERKES; Cambridge, Mass.
Section I, Social and Economic Science. (Not shown in the records.)
Section K, Physiology and Experimental Medicine. FREDERIC S. LEE; New York City.
Section L, Education. W. GRANT CHAMBERS; Pittsburgh, Pa.
Section M, Agriculture. J. G. LIPMAN; Brunswick, N. J.

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THE SEVENTIETH MEETING

(SECOND PITTSBURGH MEETING)

THE ANNUAL MEETING FOR THE FISCAL YEAR 1917–18; PITTSBURGH, PA., DECEMBER 28, 1917, TO JANUARY 2, 1918

LOCAL COMMITTEES FOR THE SECOND PITTSBURGH MEETING

THE EXECUTIVE COMMITTEE

W. J. HOLLAND, *Chairman;* Carnegie Inst., Pittsburgh, Pa.
S. LINHART, *Secretary;* Univ. of Pittsburgh, Pittsburgh, Pa.

R. F. BACON.
J. W. BERKEY.
W. V. BINGHAM.
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G. W. GERWIG.
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W. E. MOTT.
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THE UNIVERSITY OF PITTSBURGH COMMITTEE ON ARRANGEMENTS

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THE COMMITTEE ON MEETING PLACES

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The Committee on Hotels and Entertainments

J. B. Hench, *Chairman;* The Univ. School, 5524 Kentucky Ave., Pittsburgh, Pa.

Edmund Esquerre. D. R. Sumstine.

The Committee on Printing

W. E. Mott, *Chairman;* Carnegie Inst. of Technology.
H. L. Gage, *Secretary;* Carnegie Inst. of Technology.
John T. Hoyle; Carnegie Inst. of Technology.

The Honorary Reception Committee*

Martin J. Brumbaugh, Governor of Pennsylvania.
Joseph G. Armstrong, Mayor of Pittsburgh.
Edward V. Babcock, Mayor-Elect.
The President and Members of the Council of the City of Pittsburgh.
The Commissioners and Judges of Allegheny County.
The Judges of the United States Circuit and District Courts for Pittsburgh.
P. C. Knox.
Geo. T. Oliver.
The Members of the Board of Public Education of Pittsburgh.
The Superintendent of Public Instruction of Pittsburgh.
The President and Directors of the Chamber of Commerce of Pittsburgh.

Local Committees for the Pittsburgh Meeting

The Officers and Directors of the Engineers Society of Western Pennsylvania.
The President and Officers of the Academy of Sciences and Art of Pittsburgh.
The President and Managers of the Twentieth Century Club of Pittsburgh.
The Presidents of the Colleges and Higher Institutions of Learning in Western Pennsylvania.
The Trustees, Directors and Heads of Departments and Sections in the Carnegie Institute of Technology.
The Trustees and Deans of the Faculty of the Univ. of Pittsburgh.
P. C. Knox.
Geo. T. Oliver.
William Falconer.

The Finance Committee

George H. Clapp, *Chairman.* S. H. Church, *Treasurer.*

* The wives of all persons requested to serve on the Reception Committees are included.

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MRS. TAYLOR ALLDERDICE.
MRS. S. A. AMMON.
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MRS. T. H. B. MCKNIHGT.
MRS. H. B. MELLER.
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MRS. W. E. MOTT.
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Mrs. D. J. Parker.
Mrs. Thos. Patterson.
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Mrs. H. K. Porter.
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Mrs. Jas. H. Reed.
Mrs. C. B. Robertson.
Mrs. W. H. Rowe.
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Mrs. Thos. Wood Stevens.
Mrs. Douglas Stewart.
Mrs. D. A. Stewart.
Miss Ruth J. Stocking.
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Mrs. Benjamin Thaw.
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Miss Alice Thurston.
Mrs. J. C. Trees.
Mrs. J. J. Turner.
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Mrs. Charles Watkins.
Miss Sara E. Weir.
Mrs. Cortlandt Whitehead.
Mrs. Homer D. Williams.
Mrs. K. DeN. Wilson.
Mrs. R. A. Wood.
Mrs. Leonard G. Woods.
Mrs. Alex. J. Wurtz.

REPORTS OF THE SECOND PITTSBURGH MEETING

Published Reports

See Science 47: 48–50. January 11, 1918.

General Sessions at Pittsburgh

(a) Address of the Retiring President of the Association, Charles R. Van Hise, deceased. "Some Economic Aspects of the World War." Friday evening, December 28, 1917.—For this address see Science 47: 1–10, 27–37. January 4, 11, 1918.

(b) Public lecture by Dr. Frank Schlesinger. "Some Applications of Photography to Astronomy." Saturday evening, December 29, 1917.

Sessions of the Sections at Pittsburgh

Section A. Mathematics and Astronomy

Address of the Retiring Vice-President, Luther B. Eisenhart; Princeton University, Princeton, N. J. "Surfaces which can be Generated in more than One Way by the Motion of an Invariable Curve."—For this address see Annals of Mathematics II, 19: 217–230. 1917–18.

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Section B. Physics

Address of the Retiring Vice-President, HENRY A. BUMSTEAD, deceased. "Present Tendencies in Theoretical Physics."—For this address see SCIENCE 47: 51–62. January 18, 1918.

Report of the Secretary of Section B.—For this report see SCIENCE 47: 569–570. June 7, 1918.

Section C. Chemistry

Address of Retiring Vice-President was given but not published.—Retiring Vice-President, JULIUS STIEGLITZ; University of Chicago, Chicago, Ill.

Section D. Engineering

Address of the Retiring Vice-President, HENRY M. HOWE; Bedford Hills, N. Y. "Some Needs of Engineering."—For this address see SCIENCE 47: 75–80. January 25, 1918.

Section E. Geology and Geography

Address of the Retiring Vice-President, ROLLIN D. SALISBURY; University of Chicago, Chicago, Ill. "Geology in Education."—For this address see SCIENCE 47: 325–335. April 5, 1918.

Report of the Secretary of Section E.—For this report see SCIENCE 47: 467–470, 492–495. May 10–17, 1018.

Section F. Zoology

Address of the Retiring Vice-President, G. H. PARKER; Harvard University, Cambridge, Mass. "Some Underlying Principles in the Structure of the Nervous System."—For this address see SCIENCE 47: 151–162. Fig. 6. February 15, 1918.

Report of the Secretary of Section F.—For this report see SCIENCE 47: 247–248. March 8, 1918.

Section G. Botany

Address of the Retiring Vice-President, C. STUART GAGER; Brooklyn Botanic Garden, Brooklyn, N. Y. "The Near Future of Botany in America."—For this address see SCIENCE 47: 101–115. February 1, 1918.

Report of the Secretary of Section G.—For this report see SCIENCE 47: 99–100. January 25, 1918.

Section H. Anthropology and Psychology

No Retiring Vice-Presidential address given. Retiring Vice-President, F. W. HODGE; Smithsonian Institution, Washington, D. C.

Report of the Secretary of Section H.—For this report see SCIENCE 47: 543–546. May 31, 1918.

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Section I. Social and Economic Science

Address of the Retiring Vice-President, LOUIS I. DUBLIN; Metropolitan Life Insurance Company. "The Significance of the Declining Birth Rate."—For this address see SCIENCE **47**: 201–210. March 1, 1918.

Section K. Physiology and Experimental Medicine

Address of the Retiring Vice-President, EDWIN O. JORDAN; University of Chicago, Chicago, Ill. "Food-borne Infections."—For this address see SCIENCE **47**: 80–86. January 25, 1918.

Section L. Education

No Retiring Vice-Presidential address given. Retiring Vice-President, LEONARD P. AYRES; Russell Sage Foundation, New York City.

Section M. Agriculture

Address of the Retiring Vice-President, WHITMAN H. JORDAN; New York Agricultural Experiment Station, Geneva, N. Y. "The Future of Agricultural Education and Research in the United States."—For this address see SCIENCE **47**: 125–134. February 8, 1918.

Report of the Secretary of Section M.—For this report see SCIENCE **47**: 444–446. May 3, 1918.

EXECUTIVE SESSIONS FOR THE FISCAL YEAR 1917–18

COUNCIL MEETINGS

The Council met December 28, 29, 30, 31, 1917, and January 1, 1918, at Pittsburgh, Pa.—For a report of these meetings see SCIENCE **47**: 50. January 11, 1918.

Financial report of the Permanent Secretary for the period from November 1, 1917, to October 31, 1918.—See SCIENCE **49**: 124. January 31, 1919.

Report of the Treasurer for the calendar year 1918 (from December 15, 1917, to December 16, 1918).—See SCIENCE **49**: 122–124. January 31, 1919.

Meetings of the Committee on Policy:

(a) Pittsburgh, Pa., December 30, 1917.

(b) Washington, D. C., April 22, 1918.—For a report of this meeting see SCIENCE **47**: 443–444. May 3, 1918.

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PROCEEDINGS

1919

For the fiscal year 1918–19

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GENERAL OFFICERS FOR THE CALENDAR YEAR 1918

PRESIDENT

JOHN MERLE COULTER; Univ. of Chicago, Chicago, Ill.

RETIRING PRESIDENT

THOMAS W. RICHARDS; Harvard Univ., Cambridge, Mass.

VICE-PRESIDENTS AND RETIRING VICE-PRESIDENTS FOR THE SECTIONS

SECTION A. MATHEMATICS AND ASTRONOMY

Vice-President, GEORGE D. BIRKHOFF; Harvard Univ., Cambridge, Mass.
Retiring Vice-President, HENRY NORRIS RUSSELL; Princeton Univ., Princeton, N. J.

SECTION B. PHYSICS

Vice-President, GORDON F. HULL; Dartmouth Coll., Hanover, N. H.
Retiring Vice-President, WILLIAM J. HUMPHREYS; U. S. Weather Bureau, Washington, D. C.

SECTION C. CHEMISTRY

Vice-President, ALEXANDER SMITH; Columbia Univ., New York City.
Retiring Vice-President, WILLIAM ALBERT NOYES; Univ. of Illinois, Urbana, Ill.

SECTION D. ENGINEERING

Vice-President, IRA N. HOLLIS; Worcester Polytechnic Inst., Worcester, Mass.
Retiring Vice-President, HENRY STURGIS DRINKER; Lehigh Univ., South Bethlehem, Pa.

SECTION E. GEOLOGY AND GEOGRAPHY

Vice-President, DAVID WHITE; U. S. Geological Survey, Washington, D. C.
Retiring Vice-President, GEORGE HENRY PERKINS; Univ. of Vermont, Burlington, Vt.

SECTION F. ZOOLOGY

Vice-President, WILLIAM PATTEN; Dartmouth Coll., Hanover, N. H.
Retiring Vice-President, HERBERT OSBORN; Ohio State Univ., Columbus, Ohio.

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SECTION G. BOTANY

Vice-President, A. F. BLAKESLEE; Cold Spring Harbor, Long Island, N. Y.
Retiring Vice-President, BURTON E. LIVINGSTON; Johns Hopkins Univ., Baltimore, Md.

SECTION H. ANTHROPOLOGY AND PSYCHOLOGY

Vice-President, ALES HRDLICKA; U. S. National Museum, Washington, D. C.
Retiring Vice-President, EDWARD L. THORNDIKE; Columbia Univ., New York City.

SECTION I. SOCIAL AND ECONOMIC SCIENCE

Vice-President, JOHN BARRETT; Pan-American Union, Washington, D. C.
Retiring Vice-President, GEORGE WALBRIDGE PERKINS; 71 Broadway, New York City.

SECTION K. PHYSIOLOGY AND EXPERIMENTAL MEDICINE

Vice-President, FREDERIC S. LEE; Columbia Univ., New York City.
Retiring Vice-President, CHARLES-EDWARD AMORY WINSLOW; Yale Univ., New Haven, Conn.

SECTION L. EDUCATION

Vice-President, STUART A. COURTIS; Dept. of Educational Research, Detroit, Mich.
Retiring Vice-President, EDWARD FRANKLIN BUCHNER; Johns Hopkins Univ., Baltimore, Md.

SECTION M. AGRICULTURE

Vice-President, HENRY P. ARMSBY; State College, Pa.
Retiring Vice-President, HENRY JACKSON WATERS; Kansas State Agric. Coll., Manhattan, Kan.

PERMANENT SECRETARY

L. O. HOWARD; Smithsonian Institution, Washington, D. C.

GENERAL SECRETARY

O. E. JENNINGS; Carnegie Museum, Pittsburgh, Pa.

TREASURER

R. S. WOODWARD; Carnegie Institution of Washington, Washington, D. C.

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SECTION COMMITTEES FOR THE CALENDAR YEAR 1918

SECTION A. MATHEMATICS AND ASTRONOMY

GEORGE D. BIRKHOFF, Vice-President for the Section, *Chairman.*
F. R. MOULTON, *Secretary.*
HENRY NORRIS RUSSELL, Retiring Vice-President for the Section.
A. O. LEUSCHNER, 1 year.
H. N. RUSSELL, 2 years.
H. L. RIETZ, 3 years.
JAMES M. PAGE, 4 years.
GILBERT A. BLISS, 5 years.

SECTION B. PHYSICS

GORDON F. HULL, Vice-President for the Section, *Chairman.*
G. W. STEWART, *Secretary.*
W. J. HUMPHREYS, Retiring Vice-President for the Section.
W. J. HUMPHREYS, *Preceding Secretary.*
C. T. KNIPP, 1 year.
R. R. TATNALL, 2 years.
W. S. FRANKLIN, 3 years.
C. W. WAGGONER, 4 years.
HAROLD DEF. ARNOLD, 5 years.
H. A. BUMSTEAD, President, American Physical Society, *ex-officio.*
DAYTON C. MILLER, Secretary, American Physical Society, *ex-officio.*

SECTION C. CHEMISTRY

ALEXANDER SMITH, Vice-President for the Section, *Chairman.*
A. A. BLANCHARD, *Secretary.*
WILLIAM A. NOYES, Retiring Vice-President for the Section.
GEORGE D. BEAL, *Preceding Secretary.*
PHILIP B. HAWK, 1 year.
E. C. FRANKLIN, 2 years.
ARTHUR A. NOYES, 3 years.
IRVING LANGMUIR, 4 years.
B. F. LOVELACE, 5 years.
WILLIAM H. NICHOLS, President, American Chemical Society, *ex-officio.*
CHARLES L. PARSONS, Secretary, American Chemical Society, *ex-officio.*

SECTION D. ENGINEERING

IRA N. HOLLIS, Vice-President for the Section, *Chairman.*
F. L. BISHOP, *Secretary.*
HENRY S. DRINKER, Retiring Vice-President for the Section.
ARTHUR H. BLANCHARD, *Preceding Secretary.*

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GEORGE W. BISSELL, 1 year.
C. S. HOWE, 2 years.
PREVOST HUBBARD, 3 years.
ALFRED E. BURTON, 4 years.
WILLIAM BOWIE, 5 years.

SECTION E. GEOLOGY AND GEOGRAPHY

DAVID WHITE, Vice-President for the Section, *Chairman.*
R. T. CHAMBERLIN, *Secretary.*
GEORGE HENRY PERKINS, Retiring Vice-President for the Section.
GEORGE F. KAY, *Preceding Secretary.*
GEORGE F. KAY, 1 year.
W. H. EMMONS, 2 years.
C. P. BERKEY, 3 years.
H. L. FAIRCHILD, 4 years.
L. C. GLENN, 5 years.
WHITMAN CROSS, President, Geological Society of America, *ex-officio.*
E. O. HOVEY, Secretary, Geological Society of America, *ex-officio.*
NAVIN H. FENNEMAN, President, Association of American Geographers, *ex-officio.*
O. L. FASSIG, Secretary, Association of American Geographers, *ex-officio.*

SECTION F. ZOOLOGY

WILLIAM PATTEN, Vice-President for the Section, *Chairman.*
W. C. ALLEE, *Secretary.* (In absence of H. V. Neal.)
HERBERT OSBORN, Retiring Vice-President for the Section.
M. A. BIGELOW, *Preceding Secretary.*
HERBERT OSBORN, 1 year.
WILLIAM E. RITTER, 2 years.
CASWELL GRAVE, 3 years.
A. M. REESE, 4 years.
V. E. SHELFORD, 5 years.

SECTION G. BOTANY

A. F. BLAKESLEE, Vice-President for the Section, *Chairman.*
MEL T. COOK, *Secretary.*
B. E. LIVINGSTON, Retiring Vice-President for the Section.
A. F. BLAKESLEE, *Preceding Secretary.*
D. T. MACDOUGAL, 1 year.
C. STUART GAGER, 2 years.
CHARLES E. ALLEN, 3 years.
G. P. CLINTON, 4 years.
R. A. HARPER, 5 years.

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WILLIAM TRELEASE, President, Botanical Society of America, *ex-officio.*
J. R. SCHRAMM, Secretary, Botanical Society of America, *ex-officio.*
E. M. FREEMAN, American Phytopathological Society, *ex-officio.*
C. L. SHEAR, Secretary, American Phytopathological Society, *ex-officio.*

SECTION H. ANTHROPOLOGY AND PSYCHOLOGY

ALES HRDLICKA, Vice-President for the Section, *Chairman.*
E. K. STRONG, JR. *Secretary.*
E. L. THORNDIKE, Retiring Vice-President for the Section.
G. G. MACCURDY, *Preceding Secretary.*
LIGHTNER WITMER, 1 year.
FRANZ BOAS, 2 years.
A. M. TOZZER, 3 years.
PLINY E. GODDARD, 4 years.
A. L. KROEBER, American Anthropological Association, *ex-officio.*
BRUCE M. MERWIN, Acting Secretary, American Anthropological Association, *ex-officio.*
....., President, American Psychological Association, *ex-officio.*
H. S. LANGFELD, Secretary, American Psychological Association, *ex-officio.*
C. MARIUS BARBEAU, President, American Folk-Lore Society, *ex-officio.*
CHARLES PEABODY, Secretary, American Folk-Lore Society, *ex-officio.*

SECTION I. SOCIAL AND ECONOMIC SCIENCE

JOHN BARRETT, Vice-President for the Section, *Chairman.*
SEYMOUR C. LOOMIS, *Secretary.*
GEORGE WALBRIDGE PERKINS, Retiring Vice-President for the Section.
FRED C. CROXTON, *Preceding Secretary.*
JUDSON C. WALL, 1 year.
JOHN F. CROWELL, 2 years.
GEORGE F. KUNZ, 3 years.
E. E. RITTENHOUSE, 4 years.
J. PEASE NORTON, 5 years.

SECTION K. PHYSIOLOGY AND EXPERIMENTAL MEDICINE

F. S. LEE, Vice-President for the Section, *Chairman.*
A. J. GOLDFARB, *Secretary.*
C.-E. A. WINSLOW, Retiring Vice-President for the Section.
C.-E. A. WINSLOW, *Preceding Secretary.*
C.-E. A. WINSLOW, 1 year.
GEORGE N. STEWART, 2 years.
A. J. GOLDFARB, 3 years.
JOSEPH LEIDY, 4 years.
R. E. SHELDON, 5 years.

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SECTION L. EDUCATION

S. A. COURTIS, Vice-President for the Section, *Chairman.*
BIRD E. BALDWIN, *Secretary.*
E. F. BUCHNER, Retiring Vice-President for the Section.
S. A. COURTIS, *Preceding Secretary.*
E. L. THORNDIKE, 1 year.
P. P. CLAXTON, 2 years.
PAUL H. HANUS, 3 years.
LEONARD P. AYRES, 4 years.
E. F. BUCHNER, 5 years.

SECTION M. AGRICULTURE

HENRY P. ARMSBY, Vice-President for the Section, *Chairman.*
E. W. ALLEN, *Secretary.*
HENRY J. WATER, Retiring Vice-President for the Section.
EDWARD H. JENKINS, 1 year.
KENYON L. BUTTERFIELD, 2 years.
ALFRED VIVIAN, 3 years.
ALBERT F. WOODS, 4 years.
JOHN LEE COULTER, 5 years.

MEMBERS OF THE COUNCIL FOR THE CALENDAR YEAR 1918

THE PRESIDENT

JOHN MERLE COULTER; University of Chicago, Chicago, Ill.

THE PAST PRESIDENTS

EDWARD S. MORSE; Salem, Mass.
T. C. MENDENHALL, Ravenna, Ohio.
GEORGE L. GOODALE, Cambridge, Mass.
EDWARD W. MORLEY, West Hartford, Conn.
R. S. WOODWARD, Washington, D. C.
IRA REMSEN, Baltimore, Md.
W. G. FARLOW, deceased.
WILLIAM H. WELCH, Baltimore, Md.
E. L. NICHOLS, Ithaca, N. Y.
T. C. CHAMBERLIN, Chicago, Ill.
DAVID STARR JORDAN, Stanford University, Cal.
A. A. MICHELSON, Chicago, Ill.
E. C. PICKERING, deceased.
EDMUND B. WILSON, New York City.
CHARLES W. ELIOT, Cambridge, Mass.

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WILLIAM WALLACE CAMPBELL, Mount Hamilton, Cal.
THEODORE W. RICHARDS, Cambridge, Mass.

THE VICE-PRESIDENTS FOR 1916

LUTHER P. EISENHART, Princeton, N. J.
HENRY A. BUMSTEAD, New Haven, Conn.
JULIUS STIEGLITZ, Chicago, Ill.
HENRY M. HOWE, New York City. (In place of Elmer L. Corthell, deceased.)
ROLLIN D. SALISBURY, Chicago, Ill.
GEORGE H. PARKER, Cambridge, Mass.
C. STUART GAGER, Brooklyn. (In place of Thomas J. Burrill, deceased.)
FREDERICK W. HODGE, Washington, D. C.
LOUIS I. DUBLIN, New York City.
EDWIN O. JORDAN, Chicago, Ill.
LEONARD P. AYRES, New York City.
WHITMAN H. JORDAN, Geneva, N. Y.

THE VICE-PRESIDENTS FOR 1917

HENRY NORRIS RUSSELL, Princeton, N. J.
WILLIAM J. HUMPHREYS, Washington, D. C.
WILLIAM ALBERT NOYES, Urbana, Ill.
HENRY STURGIS DRINKER, South Bethlehem, Pa.
GEORGE HENRY PERKINS, Burlington, Vt.
HERBERT OSBORN, Columbus, Ohio.
BURTON E. LIVINGSTON, Baltimore, Md.
EDWARD L. THORNDIKE, New York City.
GEORGE WALBRIDGE PERKINS, New York City.
C.-E. AMORY WINSLOW, New Haven, Conn.
EDWARD FRANKLIN BUCHNER, Baltimore, Md.
HENRY JACKSON WATER, Kansas City, Kans.

THE VICE-PRESIDENTS FOR 1918

GEORGE D. BIRKHOFF, Cambridge, Mass.
GORDON F. HULL, Hanover, N. H.
ALEXANDER SMITH, New York City.
IRA N. HOLLIS, Worcester, Mass.
DAVID WHITE, Washington, D. C.
WILLIAM PATTEN, Hanover, N. H.
A. F. BLAKESLEE, Cold Spring Harbor, Long Island, N. Y.
ALES HRDLICKA, Washington, D. C.
JOHN BARRETT, Washington, D. C.
FREDERICK S. LEE, New York City.
STUART A. COURTIS, Detroit, Mich.
HENRY P. ARMSBY, State College, Pa.

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THE PERMANENT SECRETARY FOR 1915–19

L. O. HOWARD, Washington, D. C.

THE GENERAL SECRETARY FOR 1918

O. E. JENNINGS, Pittsburgh, Pa.

THE TREASURER FOR 1915–19

R. S. WOODWARD, Washington, D. C.

THE SECRETARIES OF THE SECTIONS FOR 1918

F. R. MOULTON, Chicago, Ill
GEORGE W. STEWART, Iowa City, Iowa.
ARTHUR A. BLANCHARD, Cambridge, Mass.
F. L. BISHOP, Pittsburgh, Pa.
ROLLIN T. CHAMBERLIN, Chicago, Ill.
W. C. ALLEE, Lake Forest (In place of H. V. Neal).
MEL. T. COOK, New Brunswick, N. J.
E. K. STRONG, JR., Washington, D. C.
S. C. LOOMIS, New Haven, Conn.
A. J. GOLDFARB, New York City.
BIRD T. BALDWIN, Washington, D. C.
E. W. ALLEN, Washington, D. C.

MEMBERS FROM THE ASSOCIATION AT LARGE

S. A. MITCHELL, Charlottsville, Va.
WILLIAM DUANE, Cambridge, Mass.
M. A. ROSANOFF, Pittsburgh, Pa.
GEORGE F. SWAIN, Cambridge, Mass.
W. W. ATWOOD, Cambridge, Mass.
L. B. WALTON, Gambier, Ohio.
D. T. MACDOUGAL, Tucson, Ariz.
GEORGE F. KUNZ, New York City.
SIMON FLEXNER, New York City.
GUY M. WHIPPLE, Pittsburgh, Pa.
CHARLES E. MARSHALL, Amherst, Mass.

MEMBERS ELECTED BY THE COUNCIL

J. MCK. CATTELL (for one year).
JOHN M. COULTER (for one year).
N. L. BRITTON (for one year).
H. L. FAIRCHILD (for two years).
FRANZ BOAS (for two years).

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IRVING FISHER (for two years).
STEWART PATTON (for three years).
HENRY B. WARD (for three years).
HENRY C. COWLES (for three years).

REPRESENTATIVES OF THE AFFILIATED SOCIETIES

From the American Chemical Society

WILLIAM H. NICHOLS. CHARLES L. PARSONS.

From the Geological Society of America

FRANK D. ADAMS. CHARLES P. BERKEY.

From the Botanical Society of America

F. C. NEWCOMBE. GEORGE T. MOORE.

From the American Microscopical Society

T. W. GALLOWAY. L. E. GRIFFIN.

From the American Psychological Association

G. C. BASSET.

From the American Society of Naturalists

C. B. DAVENPORT. BRADLEY M. DAVIS.

From the American Association of Economic Entomologists

C. P. GILLETTE. H. A. GOSSARD

From the American Anthropological Association

WILLIAM H. HOLMES. FRANZ BOAS.

From the American Astronomical Society

GEORGE C. COMSTOCK. FRANK SCHLESINGER.

From the American Physical Society

ERNEST MERRITT. W. F. MAGIE.

From the Society of American Bacteriologists

PHILIP B. HADLEY.

From the American Association of Anatomists

SIMON H. GAGE.

From the Society for Horticultural Science

L. C. CORBETT.

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From the Entomological Society of America

LAWRENCE BRUNER. E. P. FELT.

From the American Society of Mechanical Engineers

D. S. JACOBUS. WILLIAM B. JACKSON.

From the American Institute of Electrical Engineers

W. S. FRANKLIN. JOHN B. TAYLOR.

From the American Society of Civil Engineers

CHARLES WARREN HUNT. GEORGE GIBBS.

From the American Institute of Mining Engineers

WALDEMAR LINDGREN. J. B. TYRRELL.

From the American Medical Association

GENRGE H. SIMMONS. GEORGE M. KOBER.

From the American Federation of Teachers of The Mathematical and The Natural Science

HARRY W. TYLER. WILLIAM A. HEDRICK.

From the Association of American Geographers

NEVIN H. FENNEMAN. OLIVER L. FASSIG.

From the American Society of Zoologists

C. P. SIGERFOOS.

From the American Phytopathological Society

E. M. FREEMAN. C. L. SHEAR.

From the Society of American Foresters

BERNARD E. FERNOW.

From the American Genetic Association

A. F. BLAKESLEE. E. N. WENTWORTH.

From the Eugenics Research Association

C. B. DAVENPORT.

From the Illuminatiog Engineering Society

E. B. ROSA. C. H. SHARP.

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From the Ecological Society of America

ELLSWORTH HUNTINGTON. JOHN W. HARSHBERGER.

From the National Society of College Teachers of Education

LOTUS W. COFFMAN. GUY M. WILSON.

From the National Society for the Study of Education

LOTUS W. COFFMAN. GUY M. WHIPPLE.

MEMBERS OF THE GENERAL COMMITTEE FOR THE CALENDAR YEAR 1918

THE MEMBERS OF THE COUNCIL

REPRESENTATIVES OF THE SECTIONS

Section A, Mathematics and Astronomy. H. W. TYLER; Cambridge, Mass.
Section B, Physics. H. S. BOWER; Pittsburgh, Pa.
Section C, Chemistry. R. F. BACON; Pittsburgh, Pa.
Section D, Engineering. CHARLES HENRY DAVIS; South Yarmouth, Mass.
Section E, Geology and Geography. GEORGE F. KUNTZ; New York City.
Section F, Zoology. CARL H. EIGEMANN; Bloomington, Ind.
Section G, Botany. ARLOW B. STOUT; New York City.
Section H, Anthropology and Psychology. (Not shown in records.)
Section I, Social and Economic Science. (Not shown in records.)
Section K, Physiology and Experimental Medicine. W. T. SEDGWICK; Cambridge, Mass.
Section L, Education. HENRY W. HOLMES; Cambridge, Mass.
Section M, Agriculture. RAYMOND A. PEARSON; Ames, Iowa.

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THE SEVENTY-FIRST MEETING
(THIRD BALTIMORE MEETING)

THE ANNUAL MEETING FOR THE FISCAL YEAR 1918–19; BALTIMORE, MD., DECEMBER 23–38, 1918

LOCAL COMMITTEES FOR THE THIRD BALTIMORE MEETING

F. W. BEASLEY.
WILLIAM J. A. BLISS.
EDWARD F. BUCHNER.
ALEXANDER G. CHRISTIE.
DONALD R. HOOKER.
DUNCAN S. JOHNSON.
B. F. LOVELACE.
SAMUEL O. MAST.
EDWARD B. MATHEWS.
FRANK MORLEY.
A. HERMAN PFUND.
JOHN B. WATSON.
BURTON E. LIVINGSTON.

REPORTS OF THE THIRD BALTIMORE MEETING

PUBLISHED REPORTS

See SCIENCE **49**: 11–15. January 3, 1919.

GENERAL SESSIONS AT BALTIMORE

(a) Address of the Retiring President of the Association, THEODORE WILLIAM RICHARDS; Harvard University, Cambridge, Mass. "The Problem of Radioactive Lead." Thursday evening, December 26, 1918.—For this address see SCIENCE **49**: 1–11. January 3, 1919.

SESSIONS OF THE SECTIONS AT BALTIMORE

Section A. Mathematics and Astronomy

Address of the Retiring Vice-President, HENRY NORRIS RUSSELL; Princeton University, Princeton, N. J. "Variable Stars."—For this address see SCIENCE **49**: 127–139. February 7, 1919.

Section B. Physics

Address of the Retiring Vice-President, WILLIAM J. HUMPHREYS; U. S. Weather Bureau, Washington, D. C. "Some Recent Contributions to the Physics of the Air."—For this address see SCIENCE **49**: 155–163, 182–188. February 14, 21, 1919.

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Section C. Chemistry

Address of the Retiring Vice-President, WILLIAM ALBERT NOYES; University of Illinois, Urbana, Ill. "Valence."—For this address see SCIENCE **49**: 175–182. February 21, 1919.

Section D. Engineering

Address of the Retiring Vice-President, HENRY STURGIS DRINKER; Lehigh University, South Bethlehem, Pa. "The Need of Conservation of Our Vital and Natural Resources as Emphasized by the Lessons of the War."—For this address see SCIENCE **49**: 27–31. January 10, 1919.

Section E. Geology and Geography

Address of the Retiring Vice-President, GEORGE H. PERKINS; University of Vermont, Burlington, Vt. "The Physiographhy of Vermont."—For this address see SCIENCE **49**: 77–81. January 24, 1919.

Report of the Secretary of Section E.—For this report see SCIENCE **49**: 124. January 31, 1919.

Section F. Zoology

Address of the Retiring Vice-President, HERBERT OSBORN; Ohio State University, Columbus, Ohio. "Zoological Aims and Opportunities."—For this address see SCIENCE **49**: 101–112. January 31, 1919.

Report of the Secretary of Section F.—For this report see SCIENCE **49**: 100. January 24, 1919.

Section G. Botany

Address of the Retiring Vice-President, BURTON EDWARD LIVINGSTON; Johns Hopkins University, Baltimore, Md. "Some Responsibilities of Botanical Science."—For this address see SCIENCE **49**: 199–207. February 28, 1919.

Section H. Anthropology and Psychology

Address of the Retiring Vice-President, E. L. THORNDIKE; Columbia University, New York City. "Scientific Personnel Work in the Army."—For this address see SCIENCE **49**: 53–61. January 17, 1919.

Report of the Secretary of Section H.—For this report see SCIENCE **49**: 125–126. January 31, 1919.

Section I. Social and Economic Science

No Retiring Vice-Presidential address given. Retiring Vice-President, GEORGE WALBRIDGE PERKINS; 71 Broadway, New York City.

Section K. Physiology and Experimental Medicine

No Retiring Vice-Presidential address given. Retiring Vice-President, CHARLES-EDWARD AMORY WINSLOW; Yale University, New Haven, Conn.

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Section L. Education

Address of the Retiring Vice-President, EDWARD FRANKLIN BUCHNER; Johns Hopkins University, Baltimore, Md. "Scientific Contributions of the Educational Survey." (This address was not published.)

Section M. Agriculture

No Retiring Vice-Presidential address given. Retiring Vice-President, HENRY JACKSON WATERS; Kansas State Agricultural College, Manhattan, Kan.

Report of the Secretary of Section M.—For this report see SCIENCE **49:** 219–220. February 28, 1919.

EXECUTIVE SESSIONS FOR THE FISCAL YEAR 1918–19

COUNCIL MEETINGS

The Council met December 27 and 28, 1918, at Baltimore, Md.—For a report of these meetings see SCIENCE **49:** 15. January 3, 1919.

Financial report of the Permanent Secretary.—See SCIENCE **51:** 194–195. February 20, 1920.

Report of the Treasurer for the calendar year 1919 (from December 16, 1918, to December 20, 1919).—See SCIENCE **51:** 195–196. February 20, 1920.

MEETINGS OF THE COMMITTEE ON POLICY FOR THE FISCAL YEAR 1919

(a) Baltimore, Md., December 26, 27, 1918.

(b) Washington, D. C., April 28, 1919.—For a report of this meeting see SCIENCE **49:** 474–475. May 16, 1919.

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PROCEEDINGS

1920

For the fiscal year 1919–20

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GENERAL OFFICERS FOR THE CALENDAR YEAR 1919

PRESIDENT

SIMON FLEXNER; Rockefeller Institute for Medical Research, New York City.

RETIRING PRESIDENT

JOHN MERLE COULTER; Univ. of Chicago, Chicago, Ill.

VICE-PRESIDENTS AND RETIRING VICE-PRESIDENTS FOR THE SECTIONS

SECTION A. MATHEMATICS AND ASTRONOMY

Vice-President, OLIVER DIMON KELLOGG; Univ. of Missouri, Columbia, Mo.
Retiring Vice-President, GEORGE D. BIRKHOFF; Harvard Univ., Cambridge, Mass.

SECTION B. PHYSICS

Vice-President, MAX MASON; Univ. of Wisconsin, Madison, Wis.
Retiring Vice-President, GORDON F. HULL; Dartmouth Coll., Hanover, N. H.

SECTION C. CHEMISTRY

Vice-President, BENJAMIN F. LOVELACE; Johns Hopkins Univ., Baltimore, Md.
Retiring Vice-President, ALEXANDER SMITH; Columbia Univ., New York City.

SECTION D. ENGINEERING

Vice-President, IRA N. HOLLIS; Worcester Polytechnic Inst., Worcester, Mass.

Retiring Vice-President, HENRY S. DRINKER; Lehigh Univ., South Bethlehem, Pa.

SECTION E. GEOLOGY AND GEOGRAPHY

Vice-President, CHARLES KENNETH LEITH; Univ. of Wisconsin, Madison, Wis.
Retiring Vice-President, DAVID WHITE; U. S. Geological Survey, Washington, D. C.

SECTION F. ZOOLOGY

Vice-President, WILLIAM M. WHEELER; Bussey Inst., Forest Hills, Boston, Mass.
Retiring Vice-President, WILLIAM PATTEN; Dartmouth Coll., Hanover, N. H.

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SECTION G. BOTANY

Vice-President, LOUIS H. PAMMEL; Iowa State Coll., Ames, Iowa.
Retiring Vice-President, A. F. BLAKESLEE; Cold Spring Harbor, Long Island, N. Y.

SECTION H. ANTHROPOLOGY AND PSYCHOLOGY

Vice-President, ROBERT M. YERKES; Univ. of Minnesota, Minneapolis, Minn.
Retiring Vice-President, ALES HRDLICKA; U. S. National Museum, Wasington, D. C.

SECTION I. SOCIAL AND ECONOMIC SCIENCE

Vice-President, DAVID JANE HILL; Cosmos Club, Wasington, D. C.
Retiring Vice-President, JOHN BARRETT; Pan-American Union, Washington, D. C.

SECTION K. PHYSIOLOGY AND EXPERIMENTAL MEDICINE

Vice-President, FREDERIC S. LEE; Columbia Univ., New York City.
Retiring Vice-President, FREDERIC S. LEE; Columbia Univ., New York City.

SECTION L. EDUCATION

Vice-President, VIVIAN A. C. HENMON; Univ. of Wisconsin, Madison, Wis.
Retiring Vice-President, STUART A. COURTIS; Dept. of Educational Research, Detroit, Mich.

SECTION M. AGRICULTURE

Vice-President, ALBERT F. WOODS; Maryland State Coll., College Park, Md.
Retiring Vice-President, HENRY P. ARMSBY; State College, Pa.

PERMANENT SECRETARY

L. O. HOWARD; Smithsonian Institution, Washington, D. C.

GENERAL SECRETARY

GEORGE T. MOORE; Missouri Botanical Garden, St. Louis, Mo.

TREASURER

R. S. WOODWARD; Carnegie Institution of Washington, Washington, D. C.

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SECTION COMMITTEES FOR THE CALENDAR YEAR 1919

SECTION A. MATHEMATICS AND ASTRONOMY

OLIVER D. KELLOGG, Vice-President for the Section, *Chairman.*
F. R. MOULTON, *Secretary.*
GEORGE D. BIRKHOFF, Retiring Vice-President for the Section.
HENRY N. RUSSELL, 1 year.
H. L. RIETZ, 2 years.
JAMES M. PAGE, 3 years
GILBERT A. BLISS, 4 years.
JOEL STEBBINS, 5 years.

SECTION B. PHYSICS

MAX MASON, Vice-President for the Section, *Chairman.*
GEORGE W. STEWART, *Secretary.*
GORDON F. HULL, Retiring Vice-President for the Section.
W. J. HUMPHREYS, *Preceding Secretary.*
R. R. TATNALL, 1 year.
W. S. FRANKLIN, 2 years.
C. W. WAGGONER, 3 years.
H. DEF. ARNOLD, 4 yreas.
LOUISE S. MCDOWELL, 5 years.
J. S. AMES, President, American Physical Society, *ex-officio.*
DAYTON C. MILLER, Secretary, American Physical Society *ex-officio.*

SECTION C. CHEMISTRY

B. F. LOVELACE, Vice-President for the Section, *Chairman.*
C. E. CASPARI, *Acting Secretary.*
ALEXANDER SMITH, Retiring Vice-President for the Section.
E. C. FRANKLIN, 1 year.
ARTHUR A. NOYES, 2 years.
R. M. BIRD, 3 years.
WILLIAM J. HALE, 4 years.
WILLIAM H. NICHOLS, President, American Chemical Society, *ex-officio.*
CHARLES L. PARSONS, Secretary, American Chemical Society, *ex-officio.*

SECTION D. ENGINEERING

IRA N. HOLLIS, Vice-President for the Section, *Chairman.*
F. L. BISHOP, *Secretary.*
HENRY S. DRINKER, Retiring Vice-President for the Section.
ARTHUR H. BLANCHARD, *Preceding Secretary.*

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C. S. HOWE, 2 years.
PREVOST HUBBARD, 3 years.
ALFRED E. BURTON, 4 years.
WILLIAM BOWIE, 5 years.

SECTION E. GEOLOGY AND GEOGRAPHY

C. K. LEITH, Vice-President for the Section, *Chairman.*
R. T. CHAMBERLIN, *Secretary.*
DAVID WHITE, Retiring Vice-President for the Section.
W. H. EMMONS, 1 year.
C. P. BERKEY, 2 years.
H. L. FAIRCHILD, 3 years.
L. C. GLENN, 4 years.
W. W. ATWOOD, 5 years.
JOHN C. MERRIAM, President, Geological Society of America, *ex-officio.*
E. O. HOVEY, Secretary, Geological Society of America, *ex-officio.*
CHARLES R. DRYER, President, Association of American Geographers, *ex-officio.*
O. L. FASSIG, Secretary, Association of American Geographers, *ex-officio.*

SECTION F. ZOOLOGY

W. M. WHEELER, Vice-President for the Section, *Chairman.*
HERBERT V. NEAL, *Secretary.*
WILLIAM PATTEN, Retiring Vice-President for the Section.
M. A. BIGELOW, *Preceding Secretary.*
WILLIAM E. RITTER, 1 year.
CASWELL GRAVE, 2 years.
A. M. REESE, 3 years.
V. E. SHELFORD, 4 years.
HERBERT OSBORN, 5 years.

SECTION G. BOTANY

L. H. PAMMEL, Vice-President for the Section, *Chairman.*
MEL. T. COOK, *Secretary.*
A. F. BLAKESLEE, Retiring Vice-President for the Section.
A. F. BLAKESLEE, *Preceding Secretary.*
C. STUART GAGER, 1 year.
CHARLES E. ALLEN, 2 years.
GEORGE P. CLINTON, 3 years.
R. A. HARPER, 4 years.
HENRY W. BARRE, 5 years.
J. C. ARTHUR, President, Botanical Society of America, *ex-officio.*
J. R. SCHRAMM, Secretary, Botanical Society of America, *ex-officio.*
C. L. SHEAR, President, American Phytopathological Society, *ex-officio.*
G. R. LYMAN, Secretary, American Phytopathological Society, *ex-officio.*

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SECTION H. ANTHROPOLOGY AND PSYCHOLOGY

R. M. YERKES, Vice-President for the Section, *Chairman.*
E. K. STRONG, JR., *Secretary.*
ALES HRDLICKA, Retiring Vice-President for the Section.
G. G. MACCURDY, *Preceding Secretary.*
FRANZ BOAS, 1 year.
A. M. TOZZER, 2 years.
PLINY E. GODDARD, 3 years.
WALTER DILL SCOTT, 4 years.
WALTER S. HUNTER, 5 years.
ALES HRDLICKA, President, American Anthropological Association, *ex-officio.*
A. M. TOZZER, Secretary, American Anthropological Association, *ex-officio.*
W. D. SCOTT, President, American Psychological Association, *ex-officio.*
H. S. LANGFELD, Secretary, American Psychological Association, *ex-officio.*
ELSIE CLEWS PARSONS, President, American Folk-Lore Society, *ex-officio.*
CHARLES PEABODY, Secretary, American Folk-Lore Society, *ex-officio.*

SECTION I. SOCIAL AND ECONOMIC SCIENCE

DAVID JAYNE HILL, Vice-President for the Section, *Chairman.*
SEYMOUR C. LOOMIS, *Secretary.*
JOHN BARRETT, Retiring Vice-President for the Section.
FRED C. CROXTON, *Preceding Secretary.*
JOHN F. CROWELL, 1 year.
GEORGE F. KUNZ, 2 years.
E. E. RITTENHOUSE, 3 years.
J. PEASE NORTON, 4 years.
FREDERIC L. HOFFMAN, 5 years.

SECTION K. PHYSIOLOGY AND EXPERIMENTAL MEDICINE

F. S. LEE, Vice-President for the Section, *Chairman.*
A. J. GOLDFARB, *Secretary.*
FREDERIC S. LEE, Retiring Vice-President for the Section.
C.-E. A. WINSLOW, 1 year.
GEORGE N. STEWART, 2 years.
A. J. GOLDFARB, 3 years.
JOSEPH LEIDY, 4 years.
JOSEPH ERLANGER, 5 years.

SECTION L. EDUCATION

V. A. C. HENMON, Vice-President for the Section, *Chairman.*
BIRD T. BALDWIN, *Secretary.*
S. A. COURTIS, Retiring Vice-President for the Section.
PHILANDER P. CLAXTON, 1 year.

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PAUL H. HANUS, 2 years.
LEONARD P. AYRES, 3 years.
EDWARD F. BUCHNER, 4 years.
STUART A. COURTIS, 5 years.

SECTION M. AGRICULTURE

ALBERT F. WOODS, Vice-President for the Section, *Chairman*
JACOB G. LIPMAN, *Secretary*.
HENRY P. ARMSBY, Retiring Vice-President for the Section.
EDWIN W. ALLEN, *Preceding Secretary*.
KENYON L. BUTTERFIELD, 1 year.
ALFRED VIVIAN, 2 years.
ALBERT F. WOODS, 3 years.
JOHN LEE COULTER, 4 yeras.
C. P. GILLETTE, 5 years.

MEMBERS OF THE COUNCIL FOR THE CALENDAR YEAR 1919

THE PRESIDENT

SIMON FLEXNER, Rockefeller Institute for Medical Research, New York City.

THE PAST PRESIDENTS

EDWARD S. MORSE; Salem, Mass.
T. C. MENDENHALL; Ravenna, Ohio.
GEORGE L. GOODALE, Cambridge, Mass.
EDWARD W. MORLEY; West Hartford, Conn.
R. S. WOODWARD; Washington, D. C.
IRA REMSEN; Baltimore, Md.
WILLIAM H. WELCH; Baltimore, Md.
E. L. NICHOLS; Ithaca, N. Y.
T. C. CHAMBERLIN; Chicago, Ill.
DAVID STARR JORDAN; Stanford University, Cal.
A. A. MICHELSON; Chicago, Ill.
EDMUND B. WILSON; New York City.
CHARLES W. ELIOT; Cambridge, Mass.
WILLIAM WALLACE CAMPBELL; Mount Hamilton, Cal.
THEODEORE W. RICHARDS; Cambridge, Mass.
JOHN MERLE COULTER; Chicago, Ill.

THE VICE-PRESIDENTS FOR 1917

HENRY NORRIS RUSSELL; Princeton, N. J.
WILLIAM J. HUMPHREYS; Washington, D. C.

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WILLIAM ALBERT NOYES; Urbana, Ill.
HENRY STURGIS DRINKER; South Bethlehem, Pa.
GEORGE HENRY PERKINS; Burlington, Vt.
HERBERT OSBORN, Columbus, Ohio.
BURTON E. LIVINGSTON, Baltimore, Md.
EDWARD L. THORNDIKE, Baltimore; Md.
GEORE WALBRIDGE PERKINS; New York City.
C.-E. AMORY WINSLOW, New Haven, Conn.
EDWARD FRANKLIN BUCHNER; Baltimore, Md.
HENRY JACKSON WATERS; Kansas City, Kans.

THE VICE-PRESIDENTS FOR 1918

GEORGE D. BIRKHOFF; Cambridge, Mass.
GORDON F. HULL; Hanover, N. H.
ALEXANDER SMITH; New York City.
IRA N. HOLLIS; Worcester, Mass.
DAVID WHITE; Washington, D. C.
WILLIAM PATTEN; Hanover, N. H.
A. F. BLAKESLEE; Cold Spring Harbor, Long Island, N. Y.
ALES HRDLICKA; Washington, D. C.
JOHN BARRETT; Washington, D. C.
F. S. LEE; New York City.
STUART A. COURTIS, Detroit; Mich.
HENRY P. ARMSBY; State College, Pa.

THE VICE-PRESIDENTS FOR 1919

OLIVER D. KELLOGG, Columbia, Mo.
MAX MASON; Madison, Wis.
BENJAMIN F. LOVELACE; Baltimore, Md.
IRA N. HOLLIS; Worcester, Mass.
CHARLES K. LEITH; Madison, Wis.
WILLIAM M. WHEELER; Forest Hills, Boston, Mass.
LOUIS H. PAMMEL; Ames, Iowa.
ROBERT M. YERKES; Minneapolis, Minn.
DAVID JAYNE HILL; Washington, D. C.
F. S. LEE; New York City.
VIVIAN A. C. HENMON; Madison, Wis.
ALBERT F. WOODS; College Park, Md.

THE PERMANENT SECRETARY FOR 1915–19

L. O. HOWARD; Washington, D. C.

THE GENERAL SECRETARY FOR 1919

GEORGE T. MOORE; St. Louis, Mo.

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THE SECRETARY OF THE COUNCIL FOR 1919

ALEXANDER S. LANGSDORF; St. Louis, Mo.

THE TREASURER FOR 1915–19

R. S. WOODWARD; Washington, D. C.

THE SECRETARIES OF THE SECTIONS FOR 1915–19

FOREST R. MOULTON; Chicago, Ill.
GEORGE W. STEWART; Iowa City, Iowa.
C. E. CASPARI; St. Louis, Mo. (In place of A. A. Blanchard.)
F. L. BISHOP, Pittsburgh, Pa.
R. T. CHAMBERLIN, Chicago, Ill.
HERBERT V. NEAL; Tufts College, Mass.
MEL. T. COOK; New Brunswick, N. J.
E. K. STRONG, JR.; Pittsburgh, Pa.
SEYMOUR C. LOOMIS; New Haven, Conn.
A. J. GOLDFARB; New York City.
BIRD T. BALDWIN; Iowa City, Iowa.
J. G. LIPMAN, New Brunswick, N. J.

MEMBERS FROM THE ASSOCIATION AT LARGE

S. A. MITCHELL; Charlottsville, Va.
A. F. KOVARIK; New Haven, Conn.
M. A. ROSANOFF; Pittsburgh, Pa.
GEORGE F. SWAIN; Cambridge, Mass.
HENRY A. BUEHLER; Rolla, Mo.
BENNET M. ALLEN; Lawrence, Kan.
D. T. MACDOUGAL; Tucson, Ariz.
JAMES B. MINER; Pittsburgh, Pa.
GEORGE F. KUNZ; New York City.
SIMON FLEXNER; New York City.
GUY M. WHIPPLE; Ann Arbor, Mich.
ALFRED C. TRUE; Washington, D. C.

MEMBERS ELECTED BY THE COUNCIL

H. L. FAIRCHILD (for one year).
FRANZ BOAS (for one year).
IRVING FISHER (for one year).
STEWART PATON (for two years.)
HENRY B. WARD (for two years).
HENRY C. COWLES (for two years).
J. MCKEEN CATTELL (for three years).
N. L. BRITTON (for three years).
JOHN C. MERRIAM (for three years).

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REPRESENTATIVES OF THE AFFILIATED SOCIETIES

From the American Chemical Society

WILLIAM H. NICHOLS. CHARLES L. PARSONS.

From the Geological Society of America

JOHN C. MERRIAM. EDMUND OTIS HOVEY.

From the Botanical Society of America

WILLIAM TRELEASE. H. H. BARTLETT.

From the American Microscopical Society

PAUL S. WELSH. L. E. GRIFFIN.

From the American Psychological Association

J. E. W. WALLIN.

From the American Society of Naturalists

C. B. DAVENPORT. BRADLEY M. DAVIS.

From the American Association of Economic Entomologists

C. P. GILLETTE. H. A. GOSSARD.

From the American Anthropological Association

WILLIAM C. MILLS. FRANZ BOAS.

From the American Astronomical Society

R. H. BAKER. DINSMORE ALTER.

From the American Physical Society

ERNEST MERRITT. W. F. MAGIE.

From the Society of American Bacteriologists

ANNA W. WILLIAMS.

From the American Association of Anatomists

SIMON H. GAGE.

From the Society for Horticultural Science

C. P. CLOSE.

From the Entomological Society of America

JAMES C. NEEDHAM. NATHAN BANKS.

From the American Society of Mechanical Engineers

JOHN A. BRASHEAR. WILLIAM B. GREGORY.

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From the American Institute of Electrical Engineers

JOHN B. TAYLOR. H. H. HUMPHREY.

From the American Society of Civil Engineers

CHARLES WARREN HUNT. GEORGE GIBBS.

From the American Institute of Mining and Metallurgical Engineers

WALDEMAR LINDGREN. J. B. TYRRELL.

From the American Medical Association

GEORGE H. SIMMONS. GEORGE M. KOBER.

From the American Federation of Teachers of the Mathematical and Natural Sciences

HARRY W. TYLER. WILLIAM A. HEDRICK.

From the Association of American Geographers

CHARLES R. DRYER. OLIVER L. FASSIG.

From the American Society of Zoologists

C. P. SIGERFOOS.

From the American Phytopathological Society

C. L. SHEAR. G. R. LYMAN.

From the Society of American Foresters

BERNARD E. FERNOW.

From the American Genetic Association

A. F. BLAKESLEE. E. N. WENTWORTH.

From the Eugenics Research Association

C. B. DAVENPORT.

From the Illuminating Engineering Society

E. B. ROSA. C. H. SHARP.

From the Wilson Ornithological Club

FRANK M. SMITH. R. M. STRONG.

From the Ecological Society of America

H. C. COWLES. R. E. COKER.

From the Society of College Teachers of Education

LOTUS F. COFFMAN. GUY M. WILSON.

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From the National Society for the Study of Education

LOTUS D. COFFMAN. GUY M. WHIPPLE.

From the Seismological Society of America

H. F. REID. ALEXANDER G. MCADIE.

MEMBERS OF THE GENERAL COMMITTEE FOR THE CALENDAR YEAR 1919

THE MEMBERS OF THE COUNCIL

REPRESENTATIVES OF THE SECTIONS

Section A, Mathematics and Astronomy. H. W. TYLER; Cambridge, Mass.
Section B, Physics. ALBERT W. HULL; Schenectady, N. Y.
Section C, Chemistry. R. F. BACON; Pittsburgh, Pa.
Section D, Engineering. CHARLES HENRY DAVIS; South Yarmouth, Mass.
Section E, Geology and Geography. FRANK W. DEWOLF; Urbana, Ill.
Section F, Zoology. JOHN H. GEROULD; Hanover, N. H.
Section G, Botany. WILLIAM CROCKER; Chicago, Ill.
Section H, Anthropology and Psychology. A. E. JENKS; Minneapolis, Minn.
Section I, Social and Economic Science. JUDSON G. WALL; New York City.
Section L, Education. HENRY W. HOLMES; Cambridge, Mass.
Section M, Agriculture. GEORGE M. ROMMEL; Washington, D. C.

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THE SEVENTY-SECOND MEETING

(THIRD ST. LOUIS MEETING)

THE ANNUAL MEETING FOR THE FISCAL YEAR 1919–20; ST. LOUIS, MO., DECEMBER 29, 1919, TO JANUARY 3, 1920

LOCAL COMMITTEES FOR THE THIRD ST. LOUIS MEETING

EXECUTIVE COMMITTEE

GEORGE T. MOORE, *Chairman.*
ALEXANDER S. LANGSDORF.
AUGUSTUS G. POHLMAN.
JOHN W. WITHERS.
JOHN M. WULFING.

RECEPTION COMMITTEE FOR VISITING LADIES

MRS. GEORGE S. MEPHAM, *Chairman.*
MRS. GEORGE DOCK.
MRS. BENJAMIN M. DUGGAR.
MRS. GEORGE D. MARKHAM.
MRS. HARVEY G. MUDD.
MRS. C. CANBY ROBINSON.
MRS. HERMANN VON SCHRENK.
MRS. GREENFIELD SLUDER.
MRS. EDGAR J. SWIFT.
MRS. ROBERT J. TERRY.
MRS. J. MAX WULFING.

REPORTS OF THE THIRD ST. LOUIS MEETING

PUBLISHED REPORTS

See SCIENCE **51:** 48–50. January 9, 1920.

GENERAL SESSIONS AT ST. LOUIS

(a) Address of the Retiring President of the Association, DR. JOHN MERLE COULTER; Univeristy of Chicago, Chicago, Ill. "The Evolution of Botanical Research." Monday evening, December 29, 1919.—For this address see SCIENCE **51:** 2–8. January 2, 1920.

(b) Public address by DR. SIMON FLEXNER, President of the Association; Rockefeller Institute for Medical Research, New York City. "Present Problems in Medical Research." Tuesday evening, December 30, 1919.

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SESSIONS OF THE SECTIONS AT ST. LOUIS

Section A. Mathematics and Astronomy

Address of the Retiring Vice-President, GEORGE D. BIRKHOFF; Harvard University, Cambridge, Mass. "Recent Advances in Dynamics."—For this address see SCIENCE **51:** 51–55. January 16, 1920.

Report of the Secretary of Section A.—For this report see SCIENCE **51:** 220. February 27, 1920.

Section B. Physics

Address of the Retiring Vice-President, GORDON F. HULL; Dartmouth College, Hanover, N. H. "Some aspects of Physics in War and Peace."—For this address see SCIENCE **51:** 221–223. March 5, 1920.

Report of the Secretary of Section B.—For this report see SCIENCE **51:** 352. April 2, 1920.

Section C. Chemistry

No Retiring Vice-Presidential address given. Retiring Vice-President, ALEXANDER SMITH; Columbia University, New York City.

Section D. Engineering

Address of the Retiring Vice-President, IRA N. HOLLIS; Worcester Polytechnic Institute, Worcester, Mass. "Science and Modern Engineering."—This address not published.

Section E. Geology and Geography

Address of the Retiring Vice-President, DAVID WHITE; U. S. Geological Survey, Washington, D. C. "Geology as Taught in the United States."—This address not published.

Report of the Secretary of Section E.—For this report see SCIENCE **51:** 491–495, 519–523. May 14, 21, 1920.

Section F. Zoology

Address of the Retiring Vice-President, WILLIAM PATTEN; Dartmouth College, Hanover, N. H. "The Message of the Biologist."—For this address see SCIENCE **51:** 93–102. January 30, 1920.

Report of the Secretary of Section F.—For this report see SCIENCE **51:** 147. February 6, 1920.

Section G. Botany

Address of the Retiring Vice-President, ALBERT F. BLAKESLEE; Cold Spring Harbor, N. Y. "Sexuality in Mucors."—For this address see SCIENCE **51:** 375–382, 403–409. April 16, 23, 1920.

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Section H. Anthropology and Psychology

Address of the Retiring Vice-President, ALES HRDLICKA; U. S. National Museum, Washington, D. C. "On the Relations of Anthropology and Physiology."—For this address see SCIENCE **51:** 199–201. February 27, 1920.

Report of the Secretary of Section H.—For this report see SCIENCE **51:** 418–420, 441–444. April 23, 30, 1920.

Section I. Social and Economic Science

Address of the Retiring Vice-President, JOHN BARRETT; Director General of the Pan-American Union, Washington, D. C. "New After-the-War Phases of Practical Pan-Americanism."—This address not published.

Section K. Physiology and Experimental Medicine

Address of the Retiring Vice-President, C.-E. A. WINSLOW; Yale University, New Haven, Conn. "The Untilled Fields of Public Health."—For this address see SCIENCE **51:** 23–33. January 9, 1920.

Section L. Education

Address of the Retiring Vice-President, S. A. COURTIS; Detroit Public Schools, 246 Eliot St., Detroit, Mich. "The Part Played by Heredity and Maturity as Factors Conditioning the Effects of Training."—This address not published.

Section M. Agriculture

Address of the Retiring Vice-President, HENRY PRENTISS ARSMBY; State College, Pa. "The Organization of Research."—For this address see SCIENCE **51:** 33–38. January 9, 1920.

Report of the Secretary of Section M.—For this report see SCIENCE **52:** 64–66. July 16, 1920.

EXECUTIVE SESSIONS FOR THE FISCAL YEAR 1919–20

COUNCIL MEETINGS

The Council met December 29, 30, 31, 1919, and January 1, 1920, at St. Louis, Mo.—For a report of these meetings see SCIENCE **51:** 48–50. January 9, 1920.

Financial report of the Permanent Secretary for the partial year November 1, 1919, to March 31, 1920.—See SCIENCE **53:** 169. February 18, 1921.

Financial Report of the Permanent Secretary for the partial year, April 1, to September 30, 1920.—See SCIENCE **53:** 169–170. February 18, 1921.

Report of the Treasurer for the calendar year 1920. (From December 30, 1919, to December 23, 1920.)—See SCIENCE **53:** 167–168. February 18, 1921.

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MEETINGS OF THE COMMITTEE ON POLICY FOR THE FISCAL YEAR 1920

(a) New York City, November 13, 1919.—For a report of this meeting see SCIENCE **49**: 487–488. November 21, 1919.

(b) St. Louis, Mo., December 28, 29, 30, 31, 1919, January 1, 1920.—For a report of these meetings see SCIENCE **51**: 49. January 9, 1920.

MEETING OF THE EXECUTIVE COMMITTEE OF THE COUNCIL FOR THE FISCAL YEAR 1920

Washington, D. C., April 26, 1920. (This Committee replaced the Committee on Policy after the reorganization.)—For a report of this meeting see SCIENCE **51**: 470–472. May 7, 1920.

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PROCEEDINGS

1921

For the fiscal year 1920–21, to June, 1921

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GENERAL OFFICERS FOR THE CALENDAR YEAR 1920

PRESIDENT

L. O. HOWARD; Bureau of Entomology, U. S. Dept. of Agriculture, Washington, D. C.

RETIRING PRESIDENT

SIMON FLEXNER; Rockefeller Institute for Medical Research, New York City

VICE-PRESIDENTS AND RETIRING VICE-PRESIDENTS FOR THE SECTIONS*

SECTION A. MATHEMATICS

Vice-President, DAVID RAYMOND CURTISS; Northwestern Univ., Evanston, Ill.
Retiring Vice-President, OLIVER D. KELLOGG; Harvard Univ., Cambridge, Mass.

SECTION B. PHYSICS

Vice-President, JOHN C. MCLENNAN; Univ. of Toronto, Toronto, Canada.
Retiring Vice-President, MAX MASON; Univ. of Wisconsin, Madison, Wis.

SECTION C. CHEMISTRY

Vice-President, SAMUEL W. PARR; Univ. of Illinois, Urbana, Ill.
Retiring Vice-President, BENJAMIN F. LOVELACE; The Johns Hopkins Univ., Baltimore, Md.

SECTION D. ASTRONOMY

Vice-President, JOEL STEBBINS; Univ. of Illinois, Urbana, Ill.
(New Section, no retiring Vice-President.)

SECTION E. GEOLOGY AND GEOGRAPHY

Vice-President, ELIOT BLACKWELDER; 317 Railway Exchange Bldg., Denver, Colo.
Retiring Vice-President, CHARLES KENNETH LEITH; Univ. of Wisconsin, Madison, Wis.

* Numerals in parenthesis after the names of vice-presidents indicate the order of their seniority. (By-Laws, Art. III, Sec. 3.)

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SECTION F. ZOOLOGY

Vice-President, JOHN S. KINGSLEY; Univ. of Illinois, Urbana, Ill.
Retiring Vice-President, WILLIAM M. WHEELER; Harvard Univ., Cambridge, Mass.

SECTION G. BOTANY

Vice-President, RODNEY H. TRUE; Bureau of Plant Industry, U. S. Dept. of Agric., Washington, D. C. (2)
Retiring Vice-President, LOUIS H. PAMMEL; Iowa State College, Ames, Iowa.

SECTION H. ANTHROPOLOGY

Vice-President, ALBERT ERNEST JENKS; Univ. of Minnesota, Minneapolis, Minn. (4)
(New Section, no Retiring Vice-President.)

SECTION I. PSYCHOLOGY

Vice-President, EDWARD K. STRONG, JR.; Carnegie Inst. of Technology, Pittsburgh, Pa. (9)
Retiring Vice-President, R. M. YERKES; National Research Council, Washington, D. C.

SECTION K. SOCIAL AND ECONOMIC SCIENCES

Vice-President, FREDERICK L. HOFFMAN; Prudential Life Insurance Co. of America, Newark, N. J. (10)
Retiring Vice-President, DAVID JAYNE HILL; Washington, D. C.

SECTION M. ENGINEERING

Vice-President, CARL LEO MEES; Rose Polytechnic Inst., Terre Haute, Ind. (1)
Retiring Vice-President, IRA N. HOLLIS; Worcester Polytechnic Inst., Worcester, Mass.

SECTION N. MEDICAL SCIENCES

Vice-President, JOSEPH ERLANGER; Washington Univ., St. Louis, Mo. (8)
Retiring Vice-President, F. S. LEE; Columbia Univ., New York City.

SECTION O. AGRICULTURE

Vice-President, E. W. ALLEN; States Relations Service, U. S. Dept. of Agric., Washington, D. C. (5)
Retiring Vice-President, ALBERT F. WOODS; Maryland State Coll. of Agric., College Park, Md.

SECTION Q. EDUCATION

Vice-President, CHARLES H. JUDD; Univ. of Chicago, Chicago, Ill. (3)
Retiring Vice-President, V. A. C. HENMON: Univ. of Wisconsin, Madison, Wis.

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PERMANENT SECRETARY

BURTON E. LIVINGSTON; Johns Hopkins University, Baltimore, Md.

GENERAL SECRETARY

EDWARD L. NICHOLS; Cornell University, Ithaca, N. Y.

TREASURER

R. S. WOODWARD; Washington, D. C.

SECTION COMMITTEES FOR THE CALENDAR YEAR 1920

SECTION A. MATHEMATICS

DAVID RAYMOND CURTIS, Vice-President for the Section, *Chairman;* Evanston, Ill.
WILLIAM H. ROEVER, *Secretary* (Jan., 1920–Dec., 1920); St. Louis, Mo.
DUNHAM JACKSON (Jan., 1920–Dec., 1924); Minneapolis, Minn.
A. D. PITCHER (Jan., 1920–Dec., 1923); Cleveland, Ohio.
GILBERT A. BLISS (Jan., 1920–Dec., 1922); Chicago, Ill.
JAMES M. PAGE (Jan., 1920–Dec., 1921); Charlottesville, Va.
H. L. RIETZ (Jan., 1920–Dec., 1920); Ames, Iowa.

SECTION B. PHYSICS

JOHN C. MCLENNON, Vice-President for the Section, *Chairman*; Toronto. Canada.
GEORGE W. STEWART, *Secretary* (Jan., 1920–Dec., 1920); Ames, Iowa.
LOUISE S. MCDOWELL (Jan., 1920–Dec., 1923); Wellesley, Mass.
H. DEF. ARNOLD (Jan., 1920–Dec., 1922); New York City.
C. W. WAGGONER (Jan., 1920–Dec., 1921); Morgantown, W. Va.
W. S. FRANKLIN (Jan., 1920–Dec., 1920); Stamford, Conn.
R. A. MILLIKAN (from American Physical Society); Chicago, Ill.
DAYTON C. MILLER (from American Physical Society); Cleveland, Ohio.
F. K. RICHTMYER (from Optical Society of America); Ithaca, N. Y.

SECTION C. CHEMISTRY

SAMUEL W. PARR, Vice-President for the Section, *Chairman*; Urbana, Ill.
CHARLES E. CASPARI, *Secretary* (Jan., 1920–Dec., 1920); St. Louis, Mo.
WILLIAM J. HALE (Jan., 1920–Dec., 1922); Midland, Mich.
R. M. BIRD (Jan., 1920–Dec., 1921); Charlottesville, Va.
ARTHUR A. NOYES (Jan., 1920–Dec., 1920); Pasadena, Cal.
W. A. NOYES (from American Chemical Society); Urbana, Ill.
CHARLES L. PARSONS (from American Chemical Society); Washington, D. C.

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SECTION D. ASTRONOMY

JOEL STEBBINS, Vice-President for the Section, *Chairman;* Urbana, Ill.
FOREST R. MOULTON, *Secretary* (Jan., 1920–Dec., 1920); Chicago, Ill.
PHILIP FOX (Jan., 1920–Dec., 1924); Evanston, Ill.
H. N. RUSSELL (Jan., 1920–Dec., 1923); Princeton, N. J.
HARLOW SHAPLEY (Jan., 1920–Dec., 1922); Pasadena, Cal.
H. D. CURTIS (Jan., 1920–Dec., 1921); Pittsburgh, Pa.
J. M. POOR (Jan., 1920–Dec., 1920); Hanover, N. H.
PHILIP FOX (from American Astronomical Society); Evanston, Ill.
A. C. LUNN (from American Astronomical Society); Chicago, Ill.

SECTION E. GEOLOGY AND GEOGRAPHY

ELIOT BLACKWELDER, Vice-President for the Section, *Chairman;* Denver, Colo.
ROLLIN T. CHAMBERLIN, *Secretary* (Jan., 1920–Dec., 1920); Chicago, Ill.
DAVID WHITE (Jan., 1920–Dec., 1924); Washington, D. C.
W. W. ATWOOD (Jan., 1920–Dec., 1923); Worcester, Mass.
CHARLES R. DRYER (Jan., 1920–Dec., 1922); Fort Wayne, Ind.
H. L. FAIRCHILD (Jan., 1920–Dec., 1921); Rochester, N. Y.
C. P. BERKEY (Jan., 1920–Dec., 1920); New York City.
I. C. WHITE (from Geological Society of America); Morgantown, W. Va.
E. O. HOVEY (from Geological Society of America); New York City.
HERBERT E. GREGORY (from Association of American Geographers); New Haven, Conn.
RICHARD E. DODGE (from Association of American Geographers); Storrs, Conn.
H. R. REID (from Seismological Society of America); Baltimore, Md.
A. G. MCADIE (from Seismological Society of America); Readville, Mass.

SECTION F. ZOOLOGICAL SCIENCES

J. S. KINGSLEY, Vice-President for the Section, *Chairman;* Urbana, Ill.
H. V. NEAL, *Secretary* (Jan., 1920–Dec., 1920); Tufts, Mass.
HENRY B. WARD (Jan., 1920–Dec., 1924); Urbana, Ill.
HERBERT OSBORN (Jan., 1920–Dec., 1923); Columbus, Ohio.
V. E. SHELFORD (Jan., 1920–Dec., 1922); Urbana, Ill.
A. M. REESE (Jan., 1920–Dec., 1921); Morgantown, W. Va.
CASWELL GRAVE (Jan., 1920–Dec., 1920); St. Louis, Mo.
L. O. HOWARD (from Entomological Society of America); Washington, D. C.
J. C. NEEDHAM (from Entomological Society of America); Ithaca, N. Y.
C. C. NUTTING (from American Society of Zoologists); Sioux City, Iowa.
W. C. ALLEE (from American Society of Zoologists); Lake Forest, Ill.
GEO. A. DEAN (from American Association of Economic Entomologists); Manhattan, Kan.
T. J. HEADLEE (from American Association of Economic Entomologists); New Brunswick, N. J.
HARRY H. LAUGHLIN (from Eugenics Research Association); Cold Spring Harbor, Long Island, N. Y.

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SECTION G. BOTANY

RODNEY H. TRUE, Vice-President for the Section, *Chairman;* Washington, D. C.
MEL T. COOK, *Secretary* (Jan., 1920–Dec., 1920); New Brunswick, N. J.
H. W. BARRE (Jan., 1920–Dec., 1923); Clemson College, S. C.
R. A. HARPER (Jan., 1920–Dec., 1922); New York City.
G. P. CLINTON (Jan., 1920–Dec., 1921); New Haven, Conn.
C. E. ALLEN (Jan., 1920–Dec., 1920); Madison, Wis.
J. C. ARTHUR (from Botanical Society of America); La Fayette, Ind.
H. H. BARTLETT (from Botanical Society of America); Ann Arbor, Mich.
WM. A. ORTON (from American Phytopathological Society); Washington, D. C.
G. R. LYMAN (from American Phytopathological Society); Washington, D. C.

SECTION H. ANTHROPOLOGY

A. E. JENKS, Vice-President for the Section, *Chairman;* Minneapolis, Minn.
E. A. HOUGHTON, *Secretary* (Jan., 1920–Dec., 1920); Cambridge, Mass.
ALES HRDLICKA (Jan., 1920–Dec., 1923); Washington, D. C.
R. J. TERRY (Jan., 1920–Dec., 1921); St. Louis, Mo.
CLARK WISSLER (from American Anthropological Association); New York City.
J. WALTER FEWKES (from American Anthropological Association); Washington D. C.

SECTION I. PSYCHOLOGY

EDWARD K. STRONG, JR., Vice-President for the Section, *Chairman;* Pittsburgh, Pa.
F. N. FREEMAN, *Secretary* (Jan., 1920–Dec., 1920); Chicago, Ill.
HELEN T. WOOLLEY (Jan., 1920–Dec., 1923); Cincinnati, Ohio.
J. E. W. WALLIN (Jan., 1920–Dec., 1922); St. Louis, Mo.
W. S. HUNTER (Jan., 1920–Dec., 1921); Evanston, Ill.
W. D. SCOTT (Jan., 1920–Dec., 1920); Evanston, Ill.
W. D. SCOTT (from American Psychological Association); Evanston, Ill.

SECTION K. SOCIAL AND ECONOMIC SCIENCES

FREDERICK L. HOFFMAN, Vice-President for the Section, *Chairman;* Newark, N. J.
SEMOUR C. LOOMIS, *Secretary* (Jan., 1920–Dec., 1920); New Haven, Conn.
FREDERICK L. HOFFMAN (Jan., 1920–Dec., 1923); Newark, N. J.
J. PEASE NORTON (Jan., 1920–Dec., 1922); West Haven, Conn.
E. E. RITTENHOUSE (Jan., 1920–Dec., 1921); New York City.
GEORGE F. KUNTZ (Jan., 1920–Dec., 1920); New York City.

SECTION L. HISTORICAL AND PHILOLOGICAL SCIENCES

WILLIAM A. LOCY, *Chairman* (Special Committee on the History of Science); Northwestern University, Evanston, Ill.

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FREDERICK E. BRASCH, *Secretary;* John Crerar Library, Chicago, Ill.
FLORIAN CAJORI; Univ. of California, Berkeley, Cal.
A. P. CARMAN; Univ. of Illinois, Urbana, Ill.
HENRY G. GALE; Univ. of Chicago, Chicago, Ill.
CHARLES JUDSON HERRICK; Univ. of Chicago, Chicago, Ill.
FELIX NEUMANN: U. S. War Dept., Washington, D. C.
GEORGE SARTON; Harvard Univ., Cambridge, Mass.
WILLIAM H. WELCH; Johns Hopkins Univ., Baltimore, Md.

SECTION M. ENGINEERING

CARL LEO MEES, Vice-President for the Section, *Chairman;* Terre Haute, Ind.
FREDERICK L. BISHOP, *Secretary* (Jan., 1920–Dec., 1920); Pittsburgh, Pa.
WILLIAM BOWIE (Jan., 1920–Dec., 1923); Washington, D. C.
ALFRED E. BURTON (Jan., 1920–Dec., 1922); Cambridge, Mass.
PREVOST HUBBARD (Jan., 1920–Dec., 1921); New York City.
C. S. HOWE (Jan., 1920–Dec., 1920); Cleveland, Ohio.
H. H. HUMPHREY (from American Institute of Electrical Engineers); St., Louis, Mo.
JOHN B. TAYLOR (from American Institute of Electrical Engineers); Schenectady, N. Y.
WALDEMAR LINDGREN (from American Institute of Mining and Metallurgical Engineers); Cambridge, Mass.
J. B. TYRRELL (from American Institute of Mining and Metallurgical Engineers); Toronto, Canada.
IRA N. HOLLIS (from American Society of Mechanical Engineers); Worcester, Mass.
ARTHUR L. RICE (from American Society of Mechanical Engineers); Chicago, Ill.
A. N. TALBOTT (from American Society of Civil Engineers); Urbana, Ill.
JOHN HAYFORD (from American Society of Civil Engineers); Evanston, Ill.
EDWARD B. ROSA, deceased (from Illuminating Engineering Society).
CLAYTON H. SHARP (from Illuminating Engineering Society); White Plains, N. Y.

SECTION N. MEDICAL SCIENCES

JOSEPH ERLANGER, Vice-President for the Section, *Chairman;* St. Louis, Mo.
A. J. GOLDFARB, *Secretary* (Jan., 1920–Dec., 1920); New York City.
JOSEPH ERLANGER (Jan., 1920–Dec., 1923); St. Louis, Mo.
JOSEPH LEIDY (Jan., 1920–Dec., 1922); Philadelphia, Pa.
A. J. GOLDFARB (Jan., 1920–Dec., 1921); New York City.
GEORGE N. STEWART (Jan., 1920–Dec., 1920); Cleveland, Ohio.
GEORGE H. SIMMONS (from American Medical Association); Chicago, Ill.
GEORGE M. KOBER (from American Medical Association); Washington, D. C.
L. A. ROGERS (from Society of American Bacteriologists); Washington, D. C.

SECTION O. AGRICULTURE

E. W. ALLEN, Vice-President for the Section, *Chairman;* Washington, D. C.
JACOB G. LIPMAN, *Secretary* (Jan., 1920–Dec., 1920); New Brunswick, N. J.

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C. P. GILLETTE (Jan., 1920–Dec., 1923); Fort Collins, Colo.
JOHN L. COULTER (Jan., 1920–Dec., 1922); Morgantown, W. Va.
A. F. WOODS (Jan., 1920–Dec., 1921); College Park, Md.
KENYON L. BUTTERFIELD (Jan., 1920–Dec., 1920); Amherst, Mass.
ALFRED VIVIAN (Jan., 1920–Dec., 1920); Columbus, Ohio.
C. P. CLOSE (from Society for Horticultural Science); College Park, Md.
GIFFORD PINCHOT (from Society of American Foresters); Harrisburgh, Pa.

SECTION Q. EDUCATION

CHARLES H. JUDD, Vice-President for the Section, *Chairman;* Chicago, Ill.
BIRD T. BALDWIN, *Secretary* (Jan., 1920–Dec., 1920); Iowa City, Iowa.
STUART A. COURTIS (Jan., 1920–Dec., 1923); Detroit, Mich.
EDWARD F. BUCHNER (Jan., 1920–Dec., 1922); Baltimore, Md.
LEONARD P. AYRES (Jan., 1920-Dec., 1921); New York City.
PAUL H. HANUS (Jan., 1920–Dec., 1920); Cambridge, Mass.
HARRY W. TYLOR (from American Federation of Teachers of the Mathematical and Natural Sciences), Cambridge, Mass.
WILLIAM A. HEDRICK (from American Federation of Teachers of the Mathematical and Natural Sciences); Washington, D. C.
GUY M. WILSON (from Society of College Teachers of Education); La Fayette, Ind.
J. P. MCCONNELL (from Southern Education Society); East Radford, Va.

MEMBERS OF THE COUNCIL FOR THE CALENDAR YEAR 1920

THE PRESIDENT

L. O. HOWARD; Washington, D. C.

THE VICE-PRESIDENTS FOR 1920*

Section A, DAVID RAYMOND CURTISS; Northwestern University, Evanston, Ill. (11).
Section B, JOHN C. MCLENNAN; University of Toronto, Toronto, Canada. (5).
Section C, SAMUEL W. PARR; University of Illinois, Urbana, Ill. (6).
Section D, JOEL STEBBINS; University of Illinois, Urbana, Ill. (7).
Section E, ELIOT BLACKWELDER; 317 Railway Exchange Bldg., Denver, Colo. (6).
Section F, JOHN S. KINGSLEY; University of Illinois, Urbana, Ill. (5).
Section G, RODNEY H. TRUE; Bureau of Plant Industry, U. S. Dept. of Agric., Washington, D. C. (2).
Section H, ALBERT ERNEST JENKS; Univ. of Minnesota, Minneapolis, Minn. (4).

* Numerals in parenthesis after the names of vice-presidents indicate the order of their seniority. (By-Laws, Art. III, Sec. 3.)

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Section I, EDWARD K. STRONG, JR.; Carnegie Inst. of Technology, Pittsburgh, Pa. (9).
Section K, FREDERICK L. HOFFMAN; Prudential Life Insurance Co. of America, Newark, N. J. (10).
Section M, CARL LEO MEES, Rose Polytechnic Inst., Terre Haute, Ind. (1).
Section N, JOSEPH ERLANGER; Washington Univ., St. Louis, Mo. (8).
Section O, E. W. ALLEN; State Relations Service, U. S. Dept. of Agric., Washington, D. C. (5).
Section Q, CHARLES H. JUDD; Univ. of Chicago, Chicago, Ill. (3).

THE PERMANENT SECRETARY FOR 1920

BURTON E. LIVINGSTON; Johns Hopkins Univ., Baltimore, Md.

THE GENERAL SECRETARY FOR 1920

EDWARD L. NICHOLS; Cornell Univ., Ithaca, N. Y.

THE TREASURER FOR 1920

R. S. WOODWARD; Washington, D. C.

THE SECRETARIES OF THE SECTIONS FOR 1920

Section A, WILLIAM H. ROEVER; Washington Univ., St. Louis, Mo.
Section B, GEORGE W. STEWART; State Univ. of Iowa, Iowa City, Iowa.
Section C, CHARLES E. CASPARI; St. Louis College of Pharmacy, St. Louis, Mo.
Section D, FOREST R. MOULTON; Univ. of Chicago, Chicago, Ill.
Section E, ROLLIN T. CHAMBERLIN; Univ. of Chicago, Chicago, Ill.
Section F, HERBERT V. NEAL, Tufts College, Tufts College, Mass.
Section G, MEL T. COOK; New Jersey Agric. Exp. Sta., New Brunswick, N. J.
Section H, E. A. HOOTON; Peabody Museum, Cambridge, Mass.
Section I, F. N. FREEMAN; Univ. of Chicago, Chicago, Ill.
Section K, SEYMOUR C. LOOMIS; 82 Church St., New Haven, Conn.
Section M, FREDERIC L. BISHOP, Univ. of Pittsburgh, Pittsburgh, Pa.
Section N, A. J. GOLDFARB; Coll. of the City of New York, New York City.
Section O, JACOB G. LIPMAN; New Jersey Agric. Exp. Sta., New Brunswick, N. J.
Section Q, BIRD T. BALDWIN; Iowa Child Welfare Research Station, State Univ. of Iowa, Iowa City, Iowa.

REPRESENTATIVES OF THE AFFILIATED SCIENTIFIC SOCIETIES

From the American Physical Society

R. A. MILLIKAN, Chicago, Ill. DAYTON C. MILLER, Cleveland, Ohio.

From the Optical Society of America

F. K. RICHTMYER, Ithaca, N. Y.

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From the American Chemical Society

W. A. NOYES, Urbana, Ill. CHARLES L. PARSONS, Washington, D. C.

From the American Astronomical Society

PHILIP FOX, Evanston, Ill. A. C. LUNN, Chicago, Ill.

From the Geological Society of America

I. C. WHITE, Morgantown, W. Va. E. O. HOVEY, New York City.

From the Association of American Geographers

HERBERT E. GREGORY, New Haven, Conn. RICHARD E. DODGE, Storrs, Conn.

From the Seismological Society of America

H. F. REID, Baltimore, Md. A. G. MCADIE, Cambridge, Mass.

From the American Society of Zoologists

C. C. NUTTING, Sioux City, Iowa. W. C. ALLEE, Lake Forest, Ill.

From the Entomological Society of America

L. O. HOWARD, Washington, D. C. J. G. NEEDHAM, Ithaca, N. Y.

From the American Association of Economic Entomologists

GEO. A. BEAN, Manhattan, Kan. T. J. HEADLEE, New Brunswick, N. J.

From the Eugenics Research Association

HARRY H. LAUGHLIN, Cold Spring Harbor, Long Island, N. Y.

From the American Society of Naturalists

W. J. V. OSTERHOUT, Cambridge, Mass. A. F. SHULL, Ann Arbor, Mich.

From the Entomological Society of America

H. C. COWLES, Chicago, Ill. T. L. HANKINSON, Syracuse, N. Y.

From the American Genetics Association

A. F. BLAKESLEE, Cold Spring Harbor, Long Island, N. Y. E. N. WENTWORTH, Chicago, Ill.

From the American Microscopical Society

PAUL S. WELSH, Ann Arbor, Mich.

From the Botanical Society of America

J. C. ARTHUR, La Fayette, Ind. H. H. BARTLETT, Ann Arbor, Mich.

From the American Phytopathological Society

WM. A. ORTON, Washington, D. C. G. R. LYMAN, Washington, D. C.

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From the American Anthropological Association

CLARK WISSLER, New York City. J. WALTER FEWKES, Washington, D. C.

From the American Psychological Association

W. D. SCOTT, Evanston, Ill.

From the American Institute of Electrical Engineers

H. H. HUMPHREY, St. Louis, Mo. JOHN B. TAYLOR, Schenectady, N. Y.

From the American Institute of Mining and Metallurgical Engineers

WALDEMAR LINDGREN, Cambridge, Mass. J. B. TYRRELL, Toronto, Canada.

From the American Society of Civil Engineers

A. N. TALBOTT, Urbana, Ill. JOHN F. HAYFORD, Evanston, Ill.

From the American Society of Mechanical Engineers

JOHN A. BRASHEAR, Pittsburgh, Pa. WILLIAM A. GREGORY, New Orleans, La.

From the Illuminating Engineering Society

E. B. ROSA, Washington, D. C. CLAYTON H. SHARP, White Plains, N. Y.

From the American Medical Association

GEO. H. SIMMONS, Chicago, Ill. GEO. M. KOBER, Washington, D. C.

From the American Association of Anatomists

SIMON H. GAGE, Ithaca, N. Y.

From the Society of American Bacteriologists

L. A. ROGERS, Washington, D. C.

From the American Society for Horticultural Science

C. P. CLOSE, College Park, Md.

From the Society of American Foresters

GIFFORD PINCHOT, Harrisburg, Pa.

From the American Federation of Teachers of the Mathematical and Natural Sciences

HARRY W. TYLER, Cambridge, Mass. WM. A. HEDRICK, Washington, D. C.

From the Southern Education Society

J. P. MCCONNELL, East Radford, Va.

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From the Gama Alpha Graduate Scientific Fraternity

L. I. KNIGHT, Indianapolis, Minn. H. L. RIETZ, Iowa City, Iowa

From the Society of Sigma Xi

C. E. MCCLUNG, Washington, D. C. H. B. WARD, Urbana, Ill.

From the Iowa Academy of Science

JAMES H. LEES, Des Moines, Iowa

From the Kansas Academy of Science

ELDA R. WALKER.

MEMBERS OF THE EXECUTIVE COMMITTEE OF THE COUNCIL FOR THE CALENDAR YEAR 1920, WITH THE CALENDAR YEARS OF THEIR TERMS OF OFFICE

THE PRESIDENT

L. O. HOWARD; Washington, D. C. (1920).

THE PERMANENT SECRETARY

BURTON E. LIVINGSTON; Baltimore, Md. (1920).

THE GENERAL SECRETARY

EDWARD L. NICHOLS; Ithaca, N. Y. (1920).

J. MCK. CATTELL; Garrison-on-Hudson, N. Y. (1920–22.)
H. L. FAIRCHILD; Univ. of Rochester, Rochester, N. Y. (1920–23.)
SIMON FLEXNER; Rockefeller Inst. for Medical Research, New York City. (1920–21.)
W. J. HUMPHREYS; U. S. Weather Bureau, Washington, D. C. (1920–21.)
D. T. MACDOUGAL; Desert Laboratory, Tucson, Ariz. (1920.)
A. A. NOYES; California Inst. of Technology, Pasadena, Cal. (1920–23.)
HERBERT OSBORN; Ohio State Univ., Columbus, Ohio. (1920.)
H. B. WARD; Univ. of Illinois, Urbana, Ill. (1920–22.)

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THE SEVENTY-THIRD MEETING
(THIRD CHICAGO MEETING)

THE ANNUAL MEETING FOR THE FISCAL YEAR 1920-21; CHICAGO, ILL., DECEMBER 27, 1920, TO JANUARY 1, 1921

LOCAL COMMITTEE FOR THE THIRD CHICAGO MEETING

J. PAUL GOODE, *General Chairman;* The Univ. of Chicago, Chicago, Ill.
GILBERT A. BLISS, *Publicity;* The Univ. of Chicago, Chicago, Ill.
HENRY C. COWLES, *Membership;* The Univ. of Chicago, Chicago, Ill.
HENRY G. GALE, *Meeting Places;* The Univ. of Chicago, Chicago, Ill.
FRANK R. LILLIE, *Finance;* The Univ. of Chicago, Chicago, Ill.
WILLIAM D. MACMILLAN, *Hotel Accommodations;* The Univ. of Chicago, Chicago, Ill.

REPORTS OF THE THIRD CHICAGO MEETING

PUBLISHED REPORTS

See SCIENCE **53:** 1–4. January 7, 1921.

GENERAL SESSIONS AT CHICAGO

(a) Address of the Retiring President of the Association, DR. SIMON FLEXNER, Rockefeller Institute for Medical Research, New York City. "Twenty-five Years of Bacteriology—a Fragment of Medical Research." Monday evening, December 27, 1920.—For this address see SCIENCE **52:** 615–632. December 31, 1920.

(b) Illustrated lecture by DR. ROBERT F. GRIGGS, Katmai Expeditions, National Geographic Society. "The Volcanic Region of Katmai, Alaska, and the Valley of Ten Thousand Smokes." Tuesday evening, December 28, 1920.

(c) Lecture, with demonstrations, by DR. ROBERT W. WOOD, Johns Hopkins University. "High Power Phosphorescence and Fluorescence." Wednesday evening, December 29, 1920.

SESSIONS OF THE SECTIONS AT CHICAGO

Section A. Mathematics

Address of the Retiring Vice-President, O. D. KELLOGG; Harvard University, Cambridge, Mass. "A Decade of American Mathematics."—For this address see SCIENCE **53:** 541–548. June 17, 1921.

Report of the Secretary of Section A.—For this report see SCIENCE **53:** 342–344. April 8, 1921.

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Section B. Physics

Address of the Retiring Vice-President, MAX MASON; University of Wisconsin, Madison, Wis. "From Oersted to Einstein."

Section C. Chemistry

Address of the Retiring Vice-President, BENJAMIN F. LOVELACE; Johns Hopkins University, Baltimore, Md. "Some Aspects of Chemistry in the United States."—For this address see SCIENCE **54**: 139–146. August 19, 1921.

Section D. Astronomy

New Section; no retiring Vice-Presidential address given.

Section E. Geology and Geography

Address of the Retiring Vice-President, CHARLES K. LEITH; University of Wisconsin, Madison, Wis. "The Structural Failure of the Lithosphere."—For this address see SCIENCE **53**: 195–207. March 4, 1921.

Report of the Secretary of Section E.—For this report see SCIENCE **53**: 242. March 11, 1921.

Section F. Zoological Sciences

Address of the Retiring Vice-President, WILLIAM MORTON WHEELER; Harvard University, Cambridge, Mass. "The Organization of Research."—For this address see SCIENCE **53**: 53–67. January 21, 1921.

Report of the Secretary of Section F.—For this report see SCIENCE **76**: January 21, 1921.

Section G. Botanical Sciences

Address of the Retiring Vice-President, LOUIS H. PAMMEL; Iowa State College, Ames, Iowa. "Some Economic Phases of Botany."—For this address see SCIENCE **53**: 4–15. January 7, 1921.

Section H. Anthropology

New Section; no Retiring Vice-Presidential address given.

Address of the Vice-President of the Section, ALBERT ERNEST JENKS; University of Minnesota, Minneapolis, Minn. "The Practical Value of Anthropology to our Nation."—For this address see SCIENCE **53**: 147–156. February 18, 1921.

Report of the Secretary of Section H.— For this report see SCIENCE **54**: 98. July 29, 1921.

Section I. Psychology

Address of the Retiring Vice-President, R. M. YERKES; National Research Council, Washington, D. C. "The Relations of Psychology to Medicine."—For this address see SCIENCE **53**: 106–111. February 4, 1921.

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Section K. Social and Economic Sciences

Address of the Retiring Vice-President, DAVID JAYNE HILL; Washington, D.C. "Some Preliminaries of Peace."—For this address see SCIENTIFIC MONTHLY **12**: 223–226. March, 1921.

Section L. Historical and Philological Sciences

Report of the Secretary of Special Committee on the History of Science.—For this report see SCIENCE **53**: 315–318. April 1, 1921.

Section M. Engineering

No Retiring Vice-Presidential address given. Retiring Vice-President, IRA N. HOLLIS; Worcester Polytechnic Institute, Worcester, Mass.

Section N. Medical Sciences

No Retiring Vice-Presidential address given. Retiring Vice-President, F. S. LEE; Columbia University, New York City.

Section O. Agriculture

Address of the Retiring Vice-President, ALBERT F. WOODS; Maryland State College of Agriculture, College Park, Md. "The Future of Agricultural Science in the American Association for the Advancement of Science."—For abstract of this address see SCIENCE **53**: 27–29. January 14, 1921.

Section Q. Education

Address of the Retiring Vice-President, V. A. C. HENMON; University of Wisconsin, Madison, Wis. "The Measurement of Intelligence."—For this address see SCHOOL AND SOCIETY **13**: 151–158. February 5, 1921.

EXECUTIVE SESSIONS FOR THE FISCAL YEAR 1920–21 (TO JUNE, 1921)

COUNCIL MEETINGS

The Council met December 27, 28, 29, 30, 31, 1920, at Chicago, Ill.—For a report of these meetings see SCIENCE **53**: 1–4. January 7, 1921.

MEETINGS OF THE EXECUTIVE COMMITTEE OF THE COUNCIL FOR THE FISCAL YEAR 1921 (TO JUNE, 1921).

(a) New York City, October 17, 1920.—For a report of this meeting see SCIENCE **52**: 495–496. November 19, 1920.

(b) Chicago, Ill., Dec. 27, 28, 30, 1920.—No reports of these meetings published; mostly included in report in SCIENCE **53**: 1–4. January 7, 1921.

(c) Washington, D. C., April 24, 1921.—For reports of this meeting see SCIENCE **53**: 475–478. May 20, 1921. SCIENCE **53**: 548–550. June 17, 1921.

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LIST OF MEMBERS

OF THE

AMERICAN ASSOCIATION

FOR THE

ADVANCEMENT OF SCIENCE

[CORRECTED TO JUNE 15, 1921]

EDITED BY

SAM F. TRELEASE, *Assistant Secretary.*

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PREFACE TO THE MEMBERSHIP LIST

It is intended that each entry of this list* shall include the following items:

1. *The surname followed by the given name or names or initials,* all after the surname being in the natural order and having parentheses around parts usually omitted in correspondence. An asterisk preceding a surname indicates that the member has been elected to fellowship. The names of Life Members and those of Sustaining Members (see article 2 of the Constitution) are printed in large and small capital letters. The names of Sustaining Members are printed separately at the beginning, as well as in the body of the list.

2. *The degree or degrees* received from colleges, universities, etc.

3. *The year of election* to membership (following the letter M), the year in which the member became a life member (following the letter L), the year in which the member became a sustaining member (following the letter S), the year of election to fellowship (following the letter F). Thus, M17, F19, L20 denotes membership since 1917, fellowship since 1919, and life membership since 1920.

4. *The official title* or position.

5. *The name and address of the institution* or firm with which the member is connected.

6. *Special mail address,* different from that of the institution or firm, this being in parentheses.

7. *Sections of the Association* to which the member is allied, shown by their letter designation as set forth in the following list of sections.

*The names of societies, libraries, and other institutions or organizations holding membership in the Association are not given in the body of the membership list, but are grouped separately at the end (see p. 711).

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A, *Mathematics;*
B, *Physics;*
C, *Chemistry;*
D, *Astronomy;*
E, *Geology and Geography;*
F, *Zoological Sciences;*
G, *Botanical Sciences;*
H, *Anthropology;*
I, *Psychology;*
K, *Social and Economic Sciences;*
L, *Historical and Philological Sciences;*
M, *Engineering;*
N, *Medical Sciences;*
O, *Agriculture;*
P, *Manufactures and Commerce;*
Q, *Education.*

All of the items just enumerated are not requisite for every entry. Some of them are omitted from entries for which they should be given, but such omissions are generally due to the fact that the members in question failed to respond to repeated requests for information. The original list was prepared directly from the information cards received from the members (see Editor's Note at beginning of this volume), and it was finally completed, when printer's proofs were in hand, by inserting the remaining names contained in the addressograph file, with such information as was there shown. Those who consult the list are asked to inform the Permanent Secretary's Office regarding all errors detected.

The By-Laws and Rules of Procedure provide that only members who have paid their dues shall enjoy the privileges of the meetings and receive the free publications of the Association, but that those not longer than two years in arrears for dues are to be retained on the membership list. Because of war conditions this period of grace has been temporarily somewhat increased, and the present roll includes the names of all living members who have paid their annual dues up to and including the fiscal year 1917–18, and who have not resigned. On October 1, 1920, all names not credited with the annual payment for the fiscal year 1916–17 were dropped.

On March 31, 1921, there were 350 life or sustaining members; 9,287 annual members whose dues had been paid for the current year; 453 names retained on the list but in arrears for 1918–19, 1919–20, and 1920–21; 773 names retained but in arrears for 1919–20; and 1,085 annual members in arrears for the current year (1920–21)—making a total of 11,948 names on the roll, of which 9,637 were in good standing.—The complete list, as here printed, contains 11,934 names.—*Editor.*

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LIST OF MEMBERS OF THE ASSOCIATION

CORRECTED TO JUNE 15, 1921

SUSTAINING MEMBERS

ADAMS, EDWARD DEAN. LL.D. M90, F13, S16. 71 Broadway, New York, N. Y.

HERRMAN, MRS. ESTHER. S80. New York, N. Y. (Died July 4, 1911.)

LILLY, GENERAL WILLIAM. S79. Mauch Chunk, Pa. (Died Dec. 1, 1893.)

MAIBEN, HECTOR (EDWARD). S21. Farmer, Palmyra, Neb. F, G, O.

MCMILLIN, EMERSON. S88, F09. 120 Broadway, New York, N. Y.

THOMPSON, MRS. ELIZABETH. S73. Stamford, Conn. (Died July, 1899.)

ALPHABETICAL LIST OF ALL INDIVIDUAL MEMBERS

A

*Aase, Hannah Caroline. A.B., Ph.D. M18, F21. Asst. prof. of botany, State Coll. of Washington, Cliff House, Pullman, Wash. G.

*Abbe, Robert. A.B., M.D. M87, F92. 13 W. 50th St., New York, N. Y. N.

*Abbot, C(harles) G(reeley). B.S., M.S., D.Sc. M00, F02. Asst. sec., Smithsonian Institution, Washington, D. C. D.

Abbot, George. B.A., M.S. M21. Equipment engineering asst., Mountain States Telephone and Telegraph Co., Box 960, Denver, Colo. (3936 Tejon St., Denver, Colo.) A, M.

Abbot, Samuel A(ppleton) B(ronne). A.B., A.M. M08. Villa Lontana, Ponte Milvio, Rome (35), Italy. L, M.

Abbot, Theodore J(acob). M.D. M20. 113 E. 78th St., New York, N. Y. N.

*Abbott, Alexander C. M.D., Sc.D. M02, F05. Prof. of hygiene and dir. of School of Hygiene and Public Health, Univ. of Pennsylvania, Philadelphia, Pa. K.

Abbott, C(harles) H(arlan). A.B., A.M., Ph.D. M14. Instr. in zoology, Massachusetts Agric. Coll., Amherst, Mass. (3 Dana St., Amherst, Mass.) F.

ABBOTT, E(DWARD) STANLEY. A.B., M.D. M04, L09. Medical dir., mental hyg. committee, Public Charities Assoc. of Pennsylvania, 419 S. 15th St., Philadelphia, Pa. (The Lenox, 1301 Spruce St., Philadelphia, Pa.) I, N.

Abbott, Frank L. B.S., A.M. M01. Head, dept. of physics, State Teachers Coll., Greely, Colo. (1731 11th Ave., Greeley, Colo.) B.

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Abbott, John Woodward. A.B., M.D. M20. Med. dir., Maryland Assurance Corp., Baltimore, Md. Chief surgeon, Md. Casualty Co., Baltimore, Md. N.

Abbott, Theodore, J. M.D. M20. 113 E. 78th St., New York, N. Y. N.

Abbott, W(illiam) G(eorge), Jr. M16. Wilton, N. H.

*Abel, John J(acob). Ph.B., A.M., M.D., Sc.D., LL.D. M02, F02. Prof. of pharmocology, Johns Hopkins Medical School, Baltimore, Md. N.

Abercrombie, Ronald Taylor. A.B., M.D. M08. Dir. of gymnasium, Johns Hopkins Univ., Baltimore, Md. (18 W. Franklin St., Baltimore, Md.) N, K.

*Abrams, Duff A(ndrew). B.S., C.E. M08, F15. Prof. in charge of structural material research lab., Lewis Institute, Chicago, Ill. A, M.

*Abrams, LeRoy. A.B., A.M., Ph.D. M04, F09. Assoc. prof. of botany, Leland Stanford, Jr., Univ., Stanford University, Cal. G.

*Acheson, Edward G(oodrich). Sc.D. M01, F03. Pres., Acheson Corporation, 35 W. 42d St., New York, N. Y. C, P.

Ackerman, Ernest R. M08. 506 W. 8th St., Plainfield, N. J. M.

*Ackert, James E(dward). A.B., A.M., Ph.D. M11, F15. Prof. of zoology, Kansas State Agric. Coll., and parasitologist, Agric. Exp. Sta., Manhattan, Kan. F.

Adam, George. M.D. M08. 2937 Fillmore St., San Francisco, Cal. N.

*Adams, (Miss) A. Elizabeth. B.A., M.A. M19, F21. Assoc. prof. of zoology, Mount Holyoke Coll., South Hadley, Mass. F.

Adams, Benjamin Franklin. B.S. M21. 632 W. Chestnut St., Lancaster, Pa. C.

Adams, C. F. M04. Atherton, Mo.

Adams, Charles. M.D. M18. 920 N. Michigan Ave., Chicago, Ill. N.

*Adams, Charles Christopher. B.S., M.S., Ph.D., Sc.D. M01, F03. Prof. of forest zoology and dir. of the Roosevelt Wild Life Forest Exp. Sta., New York State Coll. of Forestry, Syracuse, N. Y. F.

*Adams, Charles E. D.Sc. M14, F18. Govt. astronomer and seismologist, Hector Observatory, Willington, New Zealand. A, B, D, E.

*Adams, Comfort A. M98, F10. Harvard Univ., Cambridge, Mass.

Adams, Cornele Berrien. M17. San Juan, Porto Rico.

Adams, Cuyler. E.M. M18. The Berkshire, Duluth, Minn.

*Adams, Cyrus C(ornelius). A.B. M04, F06. Jewett, Greene Co., New York. E, K.

*Adams, Edward Dean. LL.D. M90, F13, S16. 71 Broadway, New York, N. Y.

Adams, E(dwin) L(earned). B.S. M18. Supt. of transportation, General Petroleum Corp., 1011 Higgins Bldg., Los Angeles, Cal. M.

*Adams, E(dwin) P(limpton). B.S., M.S., Ph.D. M07, F10. Prof. of physics, Princeton Univ., Princeton, N. J. (12 Nassau St., Princeton, N. J.) B.

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*Adams, Frank D(awson). Ph.D., D.Sc., LL.D. M08, F10. Dean of faculty of applied science, McGill Univ., Montreal, Canada.

Adams, Frederick C(arhart). B.A. M01. Master, Mechanic Arts High School, Boston, Mass. (28 Winnemay St., Natick, Mass.) C, Q.

Adams, G(eorge) E(dward). B.S., M.Agr. M14. Dean of agric. dept. and prof. of agronomy, Rhode Island State Coll., Kingston, R. I. O.

Adams, H(arold) S(tanard). A.B., Ph.D. M17. Dir. of research, Naugatuck Chemical Co., Naugatuck, Conn. C.

*Adams, J(ames) F(owler). B.Sc., M.Sc., Ph.D. M13, F16. Assoc. prof. of plant pathology and assoc. plant pathologist, Delaware Coll., Newark, Del. (Box 425, Newark, Del.) F, G.

Adams, J(ohn) H(oward). M20. T. A. Huston Co., Auburn, Me. (114 College St., Lewiston, Me.) C.

Adams, John Mead. A.B., A.M., Ph.D. M18. Assoc. prof. of physics, Southern Branch of University of Cal., Los Angeles, Cal. B.

*Adams, L(everett) A(llen). A.B., A.M., Ph.D. M14, F21. Head of dept. of biology, Colorado State Teachers Coll., Greeley, Colo. F, G.

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[illegible] THE AMERICAN CONVENTION FOR THE [illegible] OF SCIENCE

1. [illegible]	[illegible]	71. [illegible]	[illegible]
2. [illegible]	[illegible]	72. [illegible]	[illegible]
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22. [illegible]	[illegible]	92. [illegible]	[illegible]
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24. [illegible]	[illegible]	94. [illegible]	[illegible]
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27. [illegible]	[illegible]	97. [illegible]	[illegible]
28. [illegible]	[illegible]	98. [illegible]	[illegible]
29. [illegible]	[illegible]	99. [illegible]	[illegible]
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31. [illegible]	[illegible]	101. [illegible]	[illegible]
32. [illegible]	[illegible]	102. [illegible]	[illegible]
33. [illegible]	[illegible]	103. [illegible]	[illegible]
34. [illegible]	[illegible]	104. [illegible]	[illegible]
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37. [illegible]	[illegible]	107. [illegible]	[illegible]
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42. [illegible]	[illegible]	112. [illegible]	[illegible]
43. [illegible]	[illegible]	113. [illegible]	[illegible]
44. [illegible]	[illegible]	114. [illegible]	[illegible]
45. [illegible]	[illegible]	115. [illegible]	[illegible]
46. [illegible]	[illegible]	116. [illegible]	[illegible]
47. [illegible]	[illegible]	117. [illegible]	[illegible]
48. [illegible]	[illegible]	118. [illegible]	[illegible]
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51. [illegible]	[illegible]	121. [illegible]	[illegible]
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54. [illegible]	[illegible]	124. [illegible]	[illegible]
55. [illegible]	[illegible]	125. [illegible]	[illegible]
56. [illegible]	[illegible]	126. [illegible]	[illegible]
57. [illegible]	[illegible]	127. [illegible]	[illegible]
58. [illegible]	[illegible]	128. [illegible]	[illegible]
59. [illegible]	[illegible]	129. [illegible]	[illegible]
60. [illegible]	[illegible]	130. [illegible]	[illegible]
61. [illegible]	[illegible]	131. [illegible]	[illegible]
62. [illegible]	[illegible]	132. [illegible]	[illegible]
63. [illegible]	[illegible]	133. [illegible]	[illegible]
64. [illegible]	[illegible]	134. [illegible]	[illegible]
65. [illegible]	[illegible]	135. [illegible]	[illegible]
66. [illegible]	[illegible]	136. [illegible]	[illegible]
67. [illegible]	[illegible]	137. [illegible]	[illegible]
68. [illegible]	[illegible]	138. [illegible]	[illegible]
69. [illegible]	[illegible]	139. [illegible]	[illegible]
70. [illegible]	[illegible]	140. [illegible]	[illegible]

[illegible]

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SEVENTY-TWO YEARS OF GROWTH.

MEMBERSHIP IN THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

FROM 1848 (461) TO 1920 (11,447)

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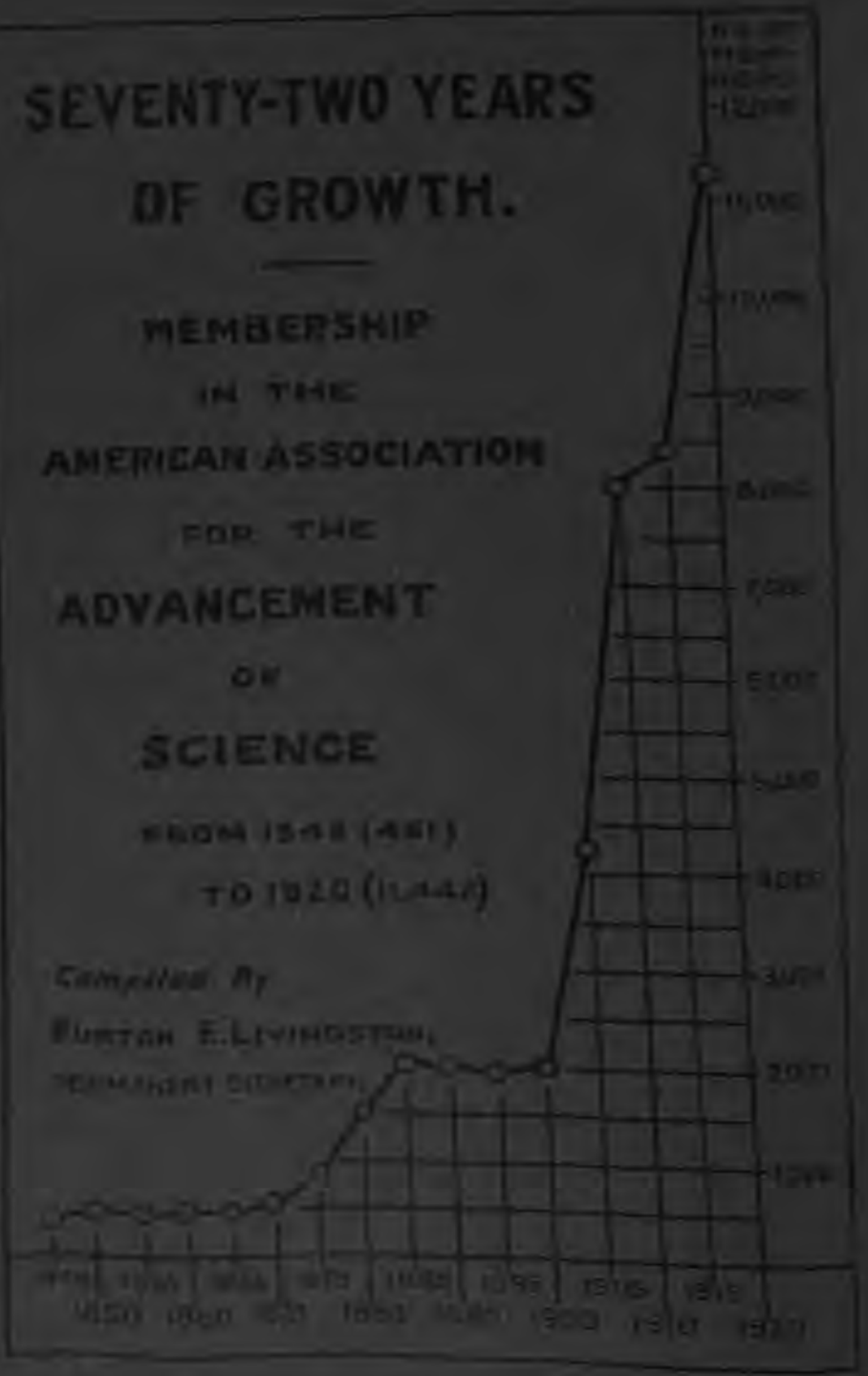
BURTON E. LIVINGSTON,

TEMPORARY SECRETARY.



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